CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. 220 Broadway, New York, November 21, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

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RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

ALLEGHENY COAL R. R.—Chartered in West Virginia on Nov. 13th. Company will build from Fairmont or some point near Fairmont, W. Va., on the Baltimore & Ohio, which road will be used as an outlet, through Marion, Harrison, Lewis and Gilmer Counties, W. Va. The road will be built as a coal road and the promoters are all coal men. The authorized capital is $5,000,000. The principal office of the company is at 1 Broadway, New York. The incorporators are Granville M. Dodge, Adolph Leirinshon and Uriah Herman, all of New York; Fairfax S. Landstreet and Harry Smith, of Baltimore.

ARIZONA.—The statement made by the Phoenix (Ariz.) "Gazette" that the Superior-Arizona Mine is having a survey made for a railroad from Florence, Ariz., to the camp, a distance of 35 miles, is not correct, we are informed by Fred W. Hoar, Supt. of the Lake Superior & Arizona Mining & Smelting Co., Superior, Ariz. Noted on Oct. 10th.

ASHCROFT, BAKERVILLE & FORT GEORGE.—Application will be made at the next session of the Dominion Parliament for an act extending the time for the commencement of construction of this line. Eberts & Taylor, Vancouver, B. C., are solicitors for the applicants.

BOUNDARY, KAMLOOPS & CARIBOO.—Application will be made at the next session of the Dominion Parliament for an act extending the time for the construction of this projected railroad. Pringle & Guthrie, Ottawa, Ont., are solicitors for the company.

BUFFALO, ROCHESTER & EASTERN.—This company has petitioned the Public Service Commission, Second District, New York, for authority to construct its line across the State, from Troy to Buffalo, almost paralleling the line of the New York Central. The company was incorporated early this year as a steam railroad, and it was the general belief at the time that the Boston & Maine was attempting by means of the new company to secure a direct connection with the Pere Marquette and Wabash roads and the traffic of the Great Lakes at Buffalo. Many of the directors of the company are capitalists having interests in the Boston & Maine and the New York, New Haven & Hartford companies. The company was represented before the commission by former Governor Frank S. Black of New York. The application will be considered between Jan. 1 and 10 next. The counties through which the proposed road will run include Erie, Genesee, Orleans, Monroe, Wayne, Cayuga, Onondaga, Madison, Oneida, Herkimer, Montgomery, Scoharie, Schenectady, Albany and Rensselaer; and the cities of Buffalo, Rochester, Oneida, Utica, Albany, Watervliet and Troy. It is proposed also to construct branch lines into Syracuse and Schenectady. The directors include: R. D. Gillett, H. W. Ely, A. D. Robinson, of Westfield, Mass.; A. W. Eaton, Pittsfield, Mass; Franklin Weston, Dalton, Mass.; H. H. Bowman, F. D. Ely, Springfield, Mass.; Joseph A. Skinner, Holyoke, Mass.; J. J. Whipple, Brockton, Mass.; James F. Shaw, Manchester; and James H. Caldwell, Troy, N. Y. The company is capitalized at $3,500,000. Noted last week.

CALGARY & FERNIE.—Pringle & Guthrie, Attys., Ottowa, Ont., are applying for an extension of time for this company to commence construction.

CAMPBELLFORD, LAKE ONTARIO & WESTERN.—H. Campbell Oswald, Secy., will apply at the next session of the Dominion Parliament for an act to extend the time for the commencement of construction of this line.

CANADIAN PACIFIC.—The company is applying for an extension of time in which to commence construction of the line to be built by the subsidiary company known as the West Ontario Pacific. Charles Drinkwater is Secy., Montreal, Que.

CHICAGO & EAST ST. LOUIS SHORT LINE.—Incorporated in Illinois with a capital of $50,000 to build a railway from East St. Louis through the counties of Saint Clair, Madison, Montgomery, Christian, Macon, Dewitt, McLean, Livingston, Kankakee and Will to Chicago. The incorporators are: H. C. Osterman, William M. Drennan, H. C. Dolph, Thomas W. Flynn and William Anderson. The general offices will be in Chicago. The Osterman Mfg. Co. of West Pullman, Ill., a company recently organized to do car repair work, is interested in the project. The first purpose of the company was to build short lines of road connecting the plants at West Pullman with the belt lines of road to enable cars of all railroads to get to and from the works. It is doubtful if the road will be extended to East St. Louis.

CUMBERLAND RIVER & NASHVILLE.—At a recent meeting of the stockholders of the newly organized Monticello Construction Co. at Somerset, Ky., the following officers were chosen: Pres., J. H. Shearer; Vice-Pres., J. H. Martin; Secy., W. L. Baker; Treas., Judge Charles McConnaghy. The company is capitalized at $100,000. It will begin at once the building of that portion of the Cumberland River & Nashville R. R. which extends from Tateville, Ky., on the Q. & C. Road, 15 miles southwest of Monticello. The right-of-way has been secured.

ESQUIMALT & NANAIMO (Canadian Pacific).—Bids have been asked for clearing and grading 48 miles of railway on the extension between Alberni and Nanoose, B. C. R. Marpole is Vice-Pres., Vancouver, B. C.

GRAND TRUNK PACIFIC.—Announcement is made that surveys on the coast extension from the Rocky Mountains to the Pacific Coast will be continued during the winter in order that construction may begin in the early spring. Geo. W. Caye is Gen. Mgr. and Pur. Agt., Winnipeg, Man. C. C. Van Arsdol is Div. Engr., at Edmonton, Alta.

IOWA & NORTHWESTERN.—S. B. Howard, Pres., Waterloo, Iowa, states that this road, which is in course of construction, will extend from Waterloo to Anamosa. It will be about 150 miles long. Grading has been commenced. Noted on Oct. 31.

KNOXVILLE, SEVIERVILLE & EASTERN.—The court at Sevierville, Tenn., has ordered an election for Dec. 14 to vote on the question of buying $150,000 of bonds to aid this proposed road from Knoxville, Tenn., to Rutherfordton, N. C., upon which preliminary surveys have already been completed between Knoxville and Sevierville. W. A. Seymour is Ch. Engr., at Knoxville, Tenn.

MILWAUKEE, PEORIA & ST. LOUIS.—This company is not ready to let contracts for construction of its proposed line. Surveys have been made, we are officially advised, and some right-of-way secured. B. Schreiner is Engr.-in-Charge, Des Moines, Iowa. Noted on Oct. 10th.

NASHVILLE & HUNTSVILLE.—It is stated that "construction will not be started on this proposed line from Nashville, Tenn., to Huntsville, Ala., 107 miles, until financial conditions change." T. M. Steger is Pres., Nashville, Tenn. Previously mentioned.

NEW YORK CENTRAL & HUDSON RIVER.—Engineers have started to make surveys for laying tracks in the company's new yard, located on the land gained by the filling in of the island just east of the shops on Boston Island. Four tracks are to be laid as soon as the survey is completed, and others will be placed in position next spring. A switch will also be placed just north of the Rensselaer, N. Y. station, so that cars may run into the yard without unnecessary switching.

NEW ORLEANS, GREAT NORTHERN.—Citizens of Jackson, Miss., are raising funds to secure this railroad through that city. J. F. Coleman is Ch. Engr., New Orleans, La.

NORTHERN PACIFIC.—The Seattle (Wash) "Times" states that Edward J. Cannon, Counsel for the Northern Pacific, has announced that this company will erect a $300,000 station in Spokane, and also expend $2,000,000 in elevating its tracks through that city.

*PHILADELPHIA & READING.—Bids are asked by W. Hunter, Ch. Engr., Philadelphia, until noon, Dec. 17, for the following work on the P. G. & N. R. R.: Contract No. 5—Masonry, trestle and embankment from south side of Berks St. to the south side of Susquehanna Ave. Contract No. 7—Masonry, trestle and embankment from south side of Susquehanna Ave. to Broad St. Contract No. 8—Bridges from Berks St. to Broad St. Contract No. 14—Masonry, embankment and paving for yards between York St. and Cumberland St. Contract No. 26—Temporary engine yard at Wayne Junction. Plans, specifications and blank forms for bidding may be obtained at Room 520, Reading Terminal, by making a deposit to cover their return in good order.

PITTSBURG & LAKE ERIE.—Preparations are being made, it is reported, for the construction of large railroad yards at Monessen, Pa., near the new plant of the Pittsburg Steel Co. Surveys have been completed and the work will be started in the early spring. Ten tracks, with a capacity of 60 cars each, will be built. J. A. Atwood is Ch. Engr., Pittsburg, Pa.

ROME & OSCEOLA.—Survey has been finished by Clifford Lewis, Jr., Second National Bank Bldg., Utica, N. Y., for this proposed line between Rome and Osceola, N. Y. The right-of-way for almost the entire distance has been secured. The plans and estimates are to be prepared and after their preparation W. Pierrepont White, Second National Bank Bldg., Utica, will have charge of the organization of a company to build the road. The road is for the development of the large tracts of timber land lying north of Rome.

SOUTH ONTARIO PACIFIC.—This company is applying to the Dominion Parliament for an act extending the time for the commencement of construction of this line and the bridge which has been authorized.

TEXAS.—Dr. Charles F. Simmons, San Antonio, Tex., advises us that he is in the market for ties and relaying rails for 70 miles of line for which engineers are now locating surveys from San Antonio, through Atascosa, McMullen and Simmons City, Live Oak County.

TROY, RENSSELAER & PITTSFIELD.—This company on Nov. 13th filed papers with the Public Service Commission, Second District, New York, asking permission to extend its line from Brainard, N. Y., to a point on the Albany & Hudson R. R. near East Schodack, N. Y. Full description of the proposed extension has not as yet been filed with the commission, but it is understood the intention is to connect with the Albany & Hudson at a point near Nassau Lake, and at the eastern end the line will enter Pittsfield, Mass., over the Pittsfield Railway, which is being extended westward. The connecting point, it is understood, will be near the village of Lebanon Springs, N. Y. When this plan is carried out, it will be possible to go from Albany through the Lebanon Valley to Pittsfield. Traffic arrangements will be made with the Albany & Hudson road so that the cars may come into Albany over the third-rail system. The proposed new road will be double tracked, and will be about 35 miles long.

ELECTRIC RAILWAYS.

LARCHMONT, N. Y.—The Public Service Commission, Second District, has granted permission to the New York & Stamford Ry. Co. to double-track its line through the villages of Larchmont, Rye and Port Chester. The company now operates an electric railroad from New Rochelle through Larchmont, Rye and Port Chester to the Connecticut state line, connecting with another electric line extending to Stamford, Conn. The company plans eventually to double-track its entire railway. The company is said to be closely affiliated with the New York, New Haven & Hartford R. R. Co., and its representatives stated to the commission that further petitions would be presented for the approval of franchises for the construction of the remaining portions of the route. The double-track extension will run on a private right-of-way in Rye, and another petition from the company to abandon its present right-of-way through that village running over Apawamis Ave. and a portion of Forest Ave. was also granted. J. B. Potter is Mgr., Port Chester.

WILMINGTON, DEL.—The People's Railway Co. has accepted the franchise granted by the Street and Sewer Directors, giving it the right to build a system in the Eleventh Ward, and it is the intention of the company to build the line as soon as practicable. R. W. Crook is Gen. Mgr.

BALTIMORE, MD.—Carville D. Benson, 609 Law Bldg., Baltimore, one of the incorporators of the Baltimore, Halethorpe & Elkridge Ry. Co., has stated that financial arrangements had practically been completed for the construction of this line from Baltimore to Halethorpe. Engineers have laid out the route, and the right-of-way has been secured. This part of the road, which is about three miles long, will be finished and in operation by July 1, 1908. When finished the road will be operated by the Maryland Electric Railways Co., which will furnish the current for operating the cars. F. D. Berry is Ch. Engr. of the Maryland Rys. Co., 400 Continental Trust Bldg.

RICHMOND, VA.—Resolutions have been passed granting a street railway franchise to W. S. Rheem.

WAYCROSS, GA.—The Waycross Gas & Construction Co. has been granted a charter in Georgia to operate a gas plant and to construct a new street railway system in Waycross. Franchises have been secured. The incorporators are: Hawley Pettibone, New Rochelle, N. Y.; Burdette Loomis, Hartford, Conn.; Geo. W. Deen, Waycross; F. H. Elmore, Jacksonville, Fla. Capital, $100,000, which may be increased to $500,000. See item in issue of Oct. 17th.

MARIETTA, GA.—The Marietta & Macland Ry. Co. will soon make application for incorporation for the purpose of building an electric railway from Marietta to Macland (no post-office), Powder Springs, Austell and possibly on to Atlanta, Ga. It may connect with the Atlanta Northern Ry. at Marietta, forming a loop line from Atlanta to Mableton, Austell, Powder Springs, Lost Mountain and Marietta, then to Atlanta over the present street railway system.

BIRMINGHAM, ALA.—The officers of the Alabama Railway & Power Co., which will connect Birmingham and Chattanooga, Tenn., by electric railway, are H. T. Henderson, of Durango, Colo., Pres.; J. H. Hill, of Fort Payne, Ala., Vice-Pres.; C. L. Young, of Durango, Secy. and Treas. The capital stock is $100,000.

BIRMINGHAM, ALA.—The Birmingham & Gulf Railway & Navigation Co. has recently awarded a contract to the BIRMINGHAM & GULF CONSTRUCTION CO. for the construction of its electric railway, which is to connect Gadsden, Birmingham and Tuscaloosa. The line will be standard-gage, and will be about 170 miles long. The following are the officers of the company: J. M. Dewberry, Brown-Marx Bldg., Birmingham, Acting Pres.; E. F. Enslen, 2737 Highland Ave., Birmingham, Treas. J. A. Vandegrift, Land Title Bldg., Philadelphia, Pa., is Gen. Mgr.

SHREVEPORT, LA.—John Lorenz, of Jackson, Miss., is reported to be interested in a proposition to build a street car line in Shreveport.

COVINGTON, TENN.—Arrangements are being made for financing the Memphis, Covington & Northern Ry. Co.'s proposed electric line between Memphis and Covington, 38 miles. Surveys have been completed. The W. K. Palmer Co., Dwight Bldg., Kansas City, Mo., are Engrs. Noted on Oct. 24th.

WOOSTER, OHIO.—David Collier, Vice-Pres. of the Wooster & Mansfield Elec. Ry. Co., Plimpton, Ohio, advises us that this company plans to build an electric railway between Wooster and Mansfield, 41 miles, paralleling the Pennsylvania Lines. Surveys are made, and about 70% of the right-of-way secured. Mr. Collier states that "we have not been able to finance the project up to the present time. Have most of the franchises and one of the best propositions in the state."

TOLEDO, OHIO.—The Toledo, Port Clinton & Lakeside Ry. Co. probably will extend its line to Catawba Island if financial assistance is given by Put-in-Bay and other places. Steamboat service will be established between Catawba Island and Put-in-Bay, Ohio. A. E. Klauser, Gardner Bldg., Toledo, is Gen. Mgr.

CLEVELAND, OHIO.—J. Harry Knisely, Jr., Secy. of the Cleveland, Brooklyn & Elyria Ry. Co., Citizens Bldg., Cleveland, advises us that company is completing its surveys and profiles, and closing up all missing links in right-of-way, by far the major portion of which has been entirely secured. Company plans to have everything in shape to begin construction as soon as the weather will permit in the spring. The officers are: J. J. Breitinger, Pres.; W. E. Elliott, Vice-Pres.; J. Harry Knisely, Jr., Secy.; B. E. Ottman, Treas.; Hon. W. H. Boyd, Gen. Counsel.

MILLERSBURG, OHIO.—The stockholders of the Millersburg & Eastern Ry. Co., at their first meeting, held recently in Millersburg, organized by electing the following Board of Directors: Dr. D. S. Olmstead, W. W. Adams, Daniel M. Miller, Millersburg; Joseph Hahn and J. W. Holcomb, of Cleveland. The directors organized by electing the following officers: Pres., Dr. D. S. Olmstead; Vice-Pres., Daniel M. Miller; Secy., Joseph Hahn; Treas., W. W. Adams. The capital stock was increased to $600,000. Noted on Nov. 7th.

ZANESVILLE, OHIO.—H. A. Williams, Rogge Hotel, Zanesville, will ask for bids soon, it is said, for building the Center Valley Ry., Light & Power Co.'s line, 79 miles long.

DECATUR, IND.—It is stated that the Fort Wayne & Springfield Ry. Co., A. W. Fishbaugh, Ch. Engr., Celina, Ohio, will soon advertise for bids for the construction of an extension from Decatur to Berne, Ind., twelve miles. The work will include three bridges. Noted on Oct. 17th.

PRINCETON, IND.—The Evansville & Southern Indiana Traction Co. will continue its line from Patoka to Hazleton, a distance of seven miles. As noted on Oct. 3d, this company has awarded the contract for the construction of its extension from Princeton to Patoka to JONES BROS., of Columbus, Ohio. The length of the extension is 4½ miles, and includes five bridges, which will be erected by the LAFAYETTE ENGINEERING CO., of La Fayette, Ind. R. H. Cole is Ch. Engr. of the E. & S. I. Traction Co., at Evansville.

DEFIANCE, OHIO.—The Defiance, Paulding & Fort Wayne Traction Co., of Fort Wayne, Ind., has secured portion of the right-of-way for its proposed line from Defiance, Ohio, to Fort Wayne, Ind. K. V. Haymaker, of Defiance, is one of the chief promoters.

DETROIT, MICH.—William E. Bauble, of Detroit, an attorney, representing Detroit and Eastern capitalists, has applied for a 30-year franchise to build 80 miles of street railway in and tributary to Detroit. Twenty-five miles of track must be laid within 18 months from the date of the franchise, and the remaining 55 miles within three years, the new company to build on or take over the existing routes of the Detroit United Railway as the franchises of that company expire. Eight tickets for a quarter, universal transfers and an offer to exchange transfer privileges with "any other line" are included in the ordinance. The bonded limit per mile is stated at $55,000, with interest not to exceed 5%; capital stock, $1,000,000, to be increased as the line is developed. A "municipal ownership" clause provides that in the event of such a transfer of ownership the price shall be fixed by arbitration.

MANCHESTER, IOWA.—We are officially advised that nothing further will be done this year by the Manchester & Davenport Interurban Ry. Co. It was recently organized at Davenport, with a capital stock of $15,000, all of which is paid in. Surveys are made, but right-of-way has not been obtained. The line will connect Davenport and Manchester, and will be about 97 miles long. The officers are: Pres., George T. Baker, of Davenport; Vice-Pres., J. R. Voorhees, of Monticello; Secy., F. W. Rank, of Moline; Treas., T. F. Halligan, of Davenport. W. H. Kimball, of Davenport, is Ch. Engr.

IOWA CITY, IOWA.—Charles P. Murray, of Cedar Rapids, Iowa, has applied for a franchise for a street railway in Iowa City. The franchise is for 25 years. Work must begin within one year and four miles of track must be in operation inside of three years. Harry Negus and I. J. Hamiel, Tipton, Iowa, also have applied for a 25-year franchise in Iowa City.

OREGON, MO.—Application has been made to the Secretary of State for a certificate of incorporation by the Oregon Interurban Ry. Co., of Oregon, with a capital stock of $60,000. The company proposes to build a standard-gage road, operated by electricity, from Oregon to Forest City, a point on the Kansas City, St. Joseph & Council Bluffs line, a distance of six miles. The incorporaters include Benjamin F. Morgan, Lewis I. Moore, Charles D. Zook, William Derr, Henry C. Cook, Wm. H. Richards, and Daniel Zachmann, all of Oregon, Mo.

TECUMSEH, OKLA.—The Rapid Transit Interurban Co., of Tecumseh, has been chartered in Oklahoma to build an electric railway from Muskogee via Tecumseh to Chickasha (Ind. T.), Okla., 137 miles, with a line from Tecumseh to Guthrie, Okla., 55 miles; and from Tecumseh to Sulphur, making a total length of 277 miles. Capital, $2,500,000. The incorporators are John A. Clark, L. B. Mitchell, J. W. Saxon, G. M. Cissna, T. J. Ray and M. H. Tennison, all of Tecumseh.

GUTHRIE, OKLA.—The Red River Railway Co., with $5,000,000 capital stock, and headquarters at Oklahoma City and Durant, has been chartered to build an electric line from a point on the Texas state line, just north of Bonham, Tex., to Oklahoma City, 200 miles. The incorporators are George T. Robertson, of Atoka, Okla.; E. M. Abernathy, S. C. Hawk and F. J. Hawk, Lexington, Okla.; Albert Rennie, of Pauls Valley, Okla.; F. P. Kibbey, of Byars, Okla.; J. W. Hocker, of Purcell, Okla., and T. H. Bayless, of Durant, Okla.

SPOKANE, WASH.—C. A. Lunceford, of Spokane, is interested in proposed electric railway to be built from that city to the Columbia River.

WALLA WALLA, WASH.—The Washington-Oregon Traction Co. has been incorporated in Washington to construct and operate railways, both steam and electric, steamboats and other transportation facilities, with headquarters at Walla Walla, Wash. About 75 miles of railway will be constructed from Walla Walla south into Oregon within the next 18 months, according to present plans. Power for the operation of the line will be secured from the Wenatchee River, 25 miles from Walla Walla. Capital stock, $1,500,000. Incorporators: Max Baumeister, E. S. Isaacs, Allen H. Reynolds, John Smith and W. A. Ritz, all of Walla Walla.

PASADENA, CAL.—O. W. Potter, of La Canada, Cal., is reported to be interested in a project for building an electric railway from that place through Pasadena and direct to Los Angeles.

NAPA, CAL.—The Standard Portland Cement Co. will build a private electric line from its plant to the banks of Napa River, a distance of 2½ miles.

LAKEPORT, CAL.—Right-of-way, terminals and franchises have been secured by the Sonoma & Lake County Ry. Co., and construction work is to begin next spring. The road will be 30 miles long, and will connect Cloverdale, Lakeport and Kelseyville. Clear Lake and a number of pleasure resorts will be reached by the line. The company may purchase one or more of these resorts. The officers of the company are as follows: A. E. Dickinson, of Ukiah, Cal., Pres.; J. E. Fulton, of Lockport, Vice-Pres. and Gen. Mgr.; W. S. Fry, Lakeport, Secy.; J. R. Garner, of Upper Lake, Cal., Treas. The Sonoma & Lake County Railway Co. was incorporated last April. Capital, $1,000,000.

DUQUESNE, ARIZ.—The Columbus-Duquesne Copper Co. may build a narrow-gage electric railway in Santa Cruz County, 25 miles long.

RENO, NEV.—The Ubeliebe Copper Mines Co. may build an electric standard gage railroad from Bonnie Clair, on the line of the Bullfrog-Goldfield R. R., to the mines, a distance of 48 miles, and to operate this road with power from the Bishop power plant. H. G. Merry is the Vice-Pres. of the company.

ST. VITAL, MAN.—This municipality has decided to build its own electric car lines into Winnipeg, a distance of about twelve miles.

STRATHCONA, ALTA.—The ratepayers have voted in favor of granting a franchise to the Strathcona Radial Tramway Co., a company which has been organized to build an electric street railway in that city. The company has already made application to lay rails on certain streets in Edmonton.

COBALT, ONT.—Judge C. M. Stone, of Cleveland, Ohio, is reported to be at the head of a syndicate which has been organized here for the purpose of building an electric railway from here to Haileybury.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

BUFFALO, N. Y.—The Cataract Power & Conduit Co. intends to construct a fireproof storehouse on its transformer house and terminal station property, Front Ave. and Niagara St., this fall. H. B. Alverson, Supt. and Engr., 718 Fidelity Bldg., Buffalo, will have charge of the work.

LIMA, N. Y.—The Lima & Honeoye Electric Light & R. R. Co., Lima, N. Y., is contemplating erection of a power station, to be located in the gas fields, four miles south of Lima. E. D. Watkins is Mgr.

PITTSBURG, PA.—The contract for installing electric lighting plant in Fifth Ave. School has been awarded to P. F. MAGINN & CO., 1025 Forbes Ave., Pittsburg, for $8,800. Charles Reisfar, Jr., is Secy., Central Bd. Education.

MONESSEN, PA.—B. Rutherford, Westinghouse Bldg., Pittsburg, has plans drawn for a power plant building, 40 × 70 ft., for the Pittsburg Seamless Tube Co., Monessen, Pa. The building will be of brick and steel and will contain engines, dynamos, etc., aggregating 1,000 HP. Bids are being taken for the equipment. Offices are in the Frick Bldg., Pittsburg.

ROYER, PA.—We are officially advised that bids will be received about March for installing a power plant for the Morrison's Cove Electric Light & Power Co. The plant will be operated by water, and will furnish lighting to Martinsburg and Williamsburg, Pa. Power probably will be supplied to crushers at Royer and vicinity. Complete equipment and about twelve [illegible] mission lines will be requir[illegible] of trans- cost, $45,000. Frank W. M[illegible] Estimated Indiana, Pa., is Des. Engr. Box 507,

BEL AIR, MD.—Bel Air E[illegible] Co. will make improvements to plant, is stated, and expects to furnish curr[illegible] both dur- ing day and night, for which [illegible]ose plant of Hollingsworth Wheel Co. o[illegible]ters Run, as well as plant now in op[illegible] will be utilized. It is reported that [illegible] are being considered for consolidating [illegible] company with the Electrical Developm[illegible]s, Incor- porated by Alexander S. Bell [illegible]others, to build electric plant on Winter[illegible]n, Wil- liam H. Harlan is Pres. [illegible] Alexa Shriver Secy., Treas. and Gen[illegible]er.

BALTIMORE, MD.—Because [illegible] a differ- ence among the bidders, the [illegible]olidated Gas Co. and the city, the Boa[illegible] Awards has rejected all bids for stree[illegible]ting for next year and will advertise [illegible] set of specifications. The bids re[illegible] showed Moses Newton, of Holyoke, M[illegible] to be the lowest bidder for gas lightin[illegible]ile the American Lighting Co. was th[illegible]west for maintaining and lighting naphth[illegible]ps. The American Lighting Co. refused [illegible]ake the naphtha contract unless it w[illegible] a sliver the contract for gas lamps. A[illegible]consider- ing this proposition the Board [illegible]ded that better results might be secured [illegible] reject- ing the bids and asking for bi[illegible]y which the contracts could be awarded [illegible] a com- bined bid.

Bids will be received by the [illegible]ric Park Co., 4 Light St., Baltimore, [illegible] electrical equipment for about 30 amus[illegible]t build- ings to be erected at Electric Pa[illegible]

LAGRANGE, GA.—The city pr[illegible]bly will increase the capacity of electric light and power plant by installation of additional boiler and engines, expending about $20,000. J. R. Black, Lagrange, is Mgr.

ALBANY, GA.—The Albany Power & Mfg. Co. will have plans and specifications prepared by J. E. Sirrine, Greenville, S. C., for development of about 10,000 HP. at Porter Shoals, on Flint River, where it is planned to build dam and powerhouse to be equipped with electrical machinery for generating and transmitting electricity. Company's present plant develops about 3,000 HP. and is supplying power and light to Albany and various enterprises. E. S. Killabrew, Albany, is Supt.

JACKSONVILLE, FLA.—The Lester Clay Co., Jacksonville, will receive bids for constructing an electric light plant, consisting of from 75 to 100 lights.

The following are reported to be the bids received by the Board of Bond Trustees on Nov. 4 for furnishing a 1,500-KW. steam turbo generator for the electric light plant: General Electric Co., Schenectady, N. Y., 900-revolution generator, $45,000; 1,800-revolution generator, $34,805. Allis-Chalmers Co., Milwaukee, Wis., $34,985. Westinghouse Machine Co., Atlanta branch, $36,500 for 1,800-revolution generator, and $40,272 for 1,200-revolution generator.

BIRMINGHAM, ALA.—The Greater Birmingham Electric Light & Power Co. has been incorporated to build a power plant on Village Creek for the purpose of supplying electricity for lighting purposes. The company plans to build a power plant of 1,000-HP. on the creek in North Birmingham. All wires within the fire limits of Birmingham will be laid underground. The capacity of the plant at first will be 1,000 16-cp. incandescent lights. It is capitalized at $196,000 and will apply for franchises in the various municipalities in the Birmingham district. J. M. Bradley is Pres.

NEW IBERIA, LA.—The HUSTON ENGINEERING CO., 613 Macheca Bldg., New Orleans, La., expects to begin work about Jan. '15 on its contract, recently received, for engineering and construction for the Bayou Teche Railway & Light Co., it is stated. This contract involves erection of power-house in New Iberia, the necessary sub-stations and construction of about 17 miles of track between New Iberia and Jeanerette. Estimated cost, $400,000; work to be completed within 18 months.

LECOMPTE, LA.—Plans and specifications will be received until Dec. 3, by J. R. Moore, Mayor, for constructing a complete lighting system in Lecompte.

CHATTANOOGA, TENN.—It is reported that the Chattanooga Electric Co. will increase the capacity of its plant and is having estimates prepared for a 1,500-KW. turbine generator. The power plant will then have a capacity of 5,500 KW., represented by one 1,500, two 1,000 and four 500-KW. machines. Byron T. Burt, Chattanooga, is Gen. Mgr.

COLUMBUS, OHIO.—Bids are asked until Nov. 25 by the Board of Public Service for furnishing material and making the following improvements at the municipal electric light plant, Dublin Ave.: Boiler blow-off tunnel, foundation for additional boilers, continuation of ash-pit tunnel, retaining wall and driveway, foundation for 1,000-KW. turbine and exciter and foundation for water-tight pit around foundations for turbine, etc. E. F. McGuire is Secy; William Wilcox, Columbus, is Supt.

ZANESVILLE, OHIO.—Bids will be received soon by H. A. Williams, Gen. Mgr., Rogge Hotel, Zanesville, for furnishing equipment for a power-house for the Center Valley Ry., Light and Power Co.

VINCENNES, IND.—The Black Hawk Light, Heat & Power Co., recently incorporated with $1,000,000 capitalization, will ask for bids soon for construction and equipment of several gas and electric light plants; also for the laying of gas mains. W. C. Reger, H. C. Bauer and H. M. Gentry are Dirs.

LA FAYETTE, IND.—Bids are asked by the Board of Public Works until Dec. 20th for lighting the city for ten years, from September, 1908.

KOKOMO, IND.—We are officially advised that contract for lighting the city streets and public buildings has been awarded by the Board of Public Works to the KOKOMO, MARION & WESTERN TRACTION CO., H. P. Palmer, Supt. Light Dept. W. T. Mech is City Clerk.

WILLIAMSPORT, IND.—Bids will be received by the Williamsport Electric Light Company for rebuilding immediately the light plant destroyed by fire.

PLATTEVILLE, WIS.—Paul F. Shuster, 424 Ashton Bldg., Rockford, and Warren S. Stearns of Rockford, have franchises and propose to erect gas plants at Marengo, Ill.; Oregon, Ill.; Harvard, Ill., and Platteville, Wis. The Platteville Gas Co. is fully organized; the others will be within a few days. No contracts have been made for construction work.

KEOSAUQUA, IOWA.—The Iowa-Missouri Traction & Power Co., Fairfield, Iowa, proposes to construct two dams across the Des Moines River at Keosauqua, Iowa, and provide water power equipment and electrical machinery for developing 9,000 HP. for electric lighting and railway purposes. A. W. Carpenter, Memphis, Mo., is interested.

MITCHELL, S. DAK.—The Mitchell Illuminating & Power Co. has been organized here with a capital stock of $100,000. This company will put in a water gas plant to supplant the present acetylene plant. The entire electric light plant will be overhauled.

PHILLIPSBURG, MONT.—The Granite Power & Light Co. has recently filed articles of incorporation with the Secretary of State in Helena. The company is capitalized for $250,000 in shares of $5 each. The directors are Charles H. Savage, of Butte, Mont., Willard Bennett, of Helena, M. E. Estep, of Chicago, Ill., and J. B. Featherman, of Drummond, Mont. The company is to operate a power plant on Flint Creek, in the vicinity of Stone Station to furnish electric power and light for the mines in that vicinity, especially in the Smart Creek district where extensive mining operations are contemplated.

PINE BLUFF, ARK.—It is stated that Edwin Cook is Engr.-in-Charge of constructing dam over Mindos Creek. The contract will be awarded in the spring.

MILTON, ORE.—The city officials are considering the question of increasing the capacity of the municipal electric light plant. The City Recorder has filed on 3,600 miner's inches as instructed by the City Council. It is proposed to extend the barrel flume up the Walla Walla River a distance of 5,000 ft. By this extension it is estimated that 500 additional HP. can be secured at a cost of $15,000. This would not include the cost of enlarging the power-house and purchasing the necessary additional machinery, which is estimated would cost from $10,000 to $15,000 more.

NEEDLES, CAL.—Carl F. Schrader has filed a petition with the Board of Supervisors for a franchise for a gas and electric light system in the town of Needles. He will obtain electric power from the Victor and Virgin Mining Co., and he intends to install a gas plant.

LOS ANGELES, CAL.—Bids are asked by Board of Supervisors, Los Angeles County, until 2 p. m., Dec. 9, for remodeling the steam heating plant of physician's residence, Administration Building, Wards 5 and 6, Surgical ward, Insane and Consumptive ward at County Hospital. C. G. Keyes is County Clerk.

OROVILLE, CAL.—The Oroville Water & Light Co. is preparing to erect a plant at Coal Canyon, eight miles above Oroville, where 2,000 HP. will be developed and provisions will be made to increase the capacity of the plant as required. This plant will supply Oroville with electricity, power and light.

SAN DIEGO, CAL.—Plans are being considered by the Los Angeles & San Diego Beach Ry. Co. for electrifying its line between this city and La Jolla. It is expected that the power house will be located at Pacific Beach. E. A. Hornbeck, San Diego, is Gen. Mgr.; R. B. Talbot is Supt. and Electrical Engr.

HERMOSA BEACH, CAL.—The Hermosa Beach Improvement Association has agreed to secure a municipal electric lighting plant for this town. A committee consisting of G. Scoles, A. C. Moore and Theodore Haneman has been appointed to work for the project. The cost of the plant is estimated at $15,000.

OAKLAND, CAL.—The Oakland Gas, Light & Heat Co. has been granted a permit to erect a steel gas storage tank to cost $162,000 near the Market St. gas plant. Capacity, 2,000,000 cu. ft. It is reported that the contract for the work has been awarded to R. D. WOOD & CO., 400 Chestnut St., Philadelphia, Pa.

COLUSA, CAL.—We are officially advised that the Snow Mountain Electric Power Co. will receive bids about Jan. 1 for constructing a water-power electric plant to cost $250,000 at Colusa. The Sierra Construction Co. planned the work. A. S. Lindstrom has charge; C. R. Wickes is Secy.

WICKENBURG, ARIZ.—C. E. Miesse, Pres. of the Octave Mining Co., is reported to have stated that a plant will be installed to furnish power for the various mining companies in the district near Wickenburg on the Hassayampa River.

POCATELLO, IDAHO.—The Idaho Consolidated Power Co., with a capital stock of $2,000,000, has absorbed the American Falls Power, Light & Water Co., the Pocatello Electric Light & Power Co., and the Blackfoot Power & Water Co., it is reported. James H. Brady will be Pres. of the new company. The plans include development of 50,000 HP. at American Falls and transmission of electrical energy to surrounding towns. The plant at American Falls now has a capacity of 2,500 HP. and 4,000 HP. can be added to the output within 60 days.

TORONTO, ONT.—Engineers of the Hydro-Electric Power Commission have completed surveys for the main transmission lines from Niagara Falls to the municipalities in the Western Power Union and are now engaged in a survey of several branch lines. The main lines are from Niagara Falls to Hamilton, from Hamilton to Toronto, from Hamilton to Guelph, Hespler, Galt, Berlin, Stratford, St. Mary's and London and from Hamilton to Brantford, Woodstock, Ingersoll and London. The loop system is contemplated in the event of a majority of the municipalities deciding definitely upon the adoption of the power scheme. All lines will be duplicated. The total length of the main loop will be 400 miles. Branch lines, for which surveys are now being made, will run from London to St. Thomas and from Galt to Brantford. P. W. Lothmann is Ch. Engr. and Adam Beck is Chn., both at Toronto.

MINNEDOSA, MAN.—Preliminary surveys have been completed and the necessary permission obtained from the Dominion Government for damming the Little Saskatchewan River and Clear Lake in connection with the civic power development for this town. E. O. Dennison is interested.

VANCOUVER, B. C.—The British Columbia Power & Electric Co. has been organized here to develop 250,000 HP. on the Chekamus River at a point 48 miles from this city where the river drops 520 ft. in 600. There is sufficient water in the river at all times of the year to develop the required energy.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

TONAWANDA, N. Y.—The New York Central & Hudson River R. R. Co. will erect a new swing bridge, to be electrically operated, between the mainland and Tonawanda Island, on its lumber docks terminal line, to replace the present structure, which was badly damaged recently by being struck by a passing boat. Bids are now being received. L. H. Van Allen, Gen. Supt., Syracuse, N. Y., has charge of the work.

DONORA, PA.—The following are the bids opened on Nov. 8, by the Commissioners of Westmoreland and Washington Counties for the construction of a bridge across the Monongahela River between Webster and Donora: A. Buchanan, $292,216; American Bridge Co., 15th and Chestnut Sts., Philadelphia, Pa., $193,625; R. A. Bigley Co., $190,000; Toledo-Massillon Bridge Co., Toledo, Ohio, $189,000.

EAST MAUCH CHUNK, PA.—Following are the bids opened on Nov. 7 by the Commissioners of Carbon County for the construction of a new span of the bridge crossing the Lehigh Valley R. R. tracks here: W. Buchanan, $18,493; York Bridge Co., York, Pa., $16,850; Canton Bridge Co., Canton, Ohio, $18,530; Oswego Bridge Co., $18,337; Horn & Neff, $18,700; J. H. Rothermal, $16,975; Penn Bridge Co., Beaver Falls, Pa., $17,998.

*PHILADELPHIA, PA.—See under Railways: Philadelphia & Reading.

SHERIDAN, PA.—It is proposed to build a new bridge over the Pennsylvania R. R. tracks at Chartiers Ave., Sheridan. Estimated cost, $50,000.

WILLIAMSPORT, MD.—We are officially advised that the following bids for the construction of the Washington and Berkeley bridge, consisting of a reinforced concrete arch bridge, 15 span, total length 1,570 ft., across the Potomac River here were opened on Nov. 13 by the Washington & Berkeley Bridge Co., Williamsport: McGaw & Gray, Pennsylvania Bldg., Philadelphia, Pa., $180,940; Meigs & Hanford, Washington, D. C., $169,712; H. H. Geist, Baltimore, Md., $151,130; Alsop & Pierce, Newport News, Va., $136,376; E. G. Nave Bros., Portsmouth, O., $127,000; CODER & MILLER, Harrisburg, Pa., $123,660 (awarded contract). Victor Cushwa, Williamsport, is Pres., Washington & Berkeley Bridge Co.

MORGANTOWN, W. VA.—The County has agreed to sign a contract with the Baltimore & Ohio R. R. Co., giving that road the permission asked for to move the eastern abutment of the bridge here. The railroad will also construct two new bridges here, one over Walnut St. and the other over Decker's Run. These will be steel structures, and work on both will be started early in the spring. G. D. Swingley, Connellsville, Pa., is Div. Engr.

CASTLE, N. C.—A steel bridge will be constructed across North East River at Castle Hayne, New Hanover and Pender counties having decided upon this improvement. Bids are asked until Jan. 7. D. McEachern, Wilmington, N. C., is Chn. County Comrs.

ATLANTA, GA.—The Atlantic Compress Co., Candler Bldg., will build a 24-ft. underpass requiring two steel girders 24 ft. in length. W. W. Robinson is Mgr.

HAMILTON, OHIO.—We are officially advised that the following bids were received on Nov. 12 by J. E. Brate, County Audr., for the construction of the concrete substructure of the bridge over Two-Mile Creek on Seven-Mile Pike: Frank J. Davis, Hamilton, $3,038; J. H. Frunck, Hamilton, $4,087; B. F. Brate, Maud, Ohio, $4,077; John P. Meehan, Middletown, Ohio, $3,006.

LA FAYETTE, IND.—Plans are being prepared for the construction of a new bridge over the Wabash River in Tippecanoe County. Estimated cost, $50,000. John P. Forseman is County Audr.

SOUTH BEND, IND.—Bids are asked until Nov. 22 by the Board of County Commissioners for constructing a concrete steel girder bridge at La Salle Ave., 80 ft. long and 80 ft. wide. John W. Harbow Co. and Alonzo J. Hammond, South Bend, are Engrs.-in-Charge.

RICHMOND, IND.—THE PAN-AMERICAN BRIDGE CO., Newcastle, has been awarded the contract by the Board of County Commissioners for the construction of eight new bridges, erection of two arches, and repairs to other structures, at $14,625.

BENTON HARBOR, MICH.—Plans have been prepared by James W. Pearl, Constructing Engr., for the construction of a new 32-ft. highway bridge. Estimated cost, $70,000.

IDAGROVE, IOWA.—THE R. J. LUNDGREN CO., Des Moines, were awarded the contract on Nov. 7 by the County Board of Commissioners, for the construction of a steel bridge across Maple River, at $3,450.

*THIEF RIVER FALLS, MINN.—The contract for the construction of an iron bridge across Red Lake River was awarded on Nov. 6 by the City Council to the HENNEPIN BRIDGE CO., 968 Laurel St., Minneapolis, Minn., at $15,950. Bids were asked until Nov. 6.

WICHITA, KAN.—The contract for the construction of five new steel bridges with stone abutments was awarded on Nov. 4 by the County Commissioners to the WICHITA CONSTRUCTION CO., at $5,600, and $800 for abutments.

The following bids were opened Nov. 4 by the City Council for the construction of a bridge across Chisholm Creek on Douglas Ave.: Topeka Bridge & Iron Co. (two bids), $11,975 and $10,975; Carthage Bridge Co., $11,890; Cement & Stone Supply Co., $11,850. E. H. Sawin is City Engr.

FARGO, N. DAK.—THE NORTHWESTERN BRIDGE CO. was awarded the contract on Nov. 5 by the Commissioners of Cass County, for the construction of six steel bridges, each 60 ft. in length, across the Stanley drain No. 27, at $22 per lin. ft.

FORT BENTON, MONT.—Bids are asked until Dec. 2, by W. R. Leet, County Clk., for the construction of two bridges across Highwood Creek, near Bucklands.

BEAUMONT, TEX.—We are officially advised that the contract for the construction of the sub-structure of the Trinity River bridge has been awarded by the Colorado Southern, New Orleans & Pacific R. R. Co., to the UNION BRIDGE & CONSTRUCTION CO., 606 New Nelson Bldg., Kansas City, Mo., at about $65,000. L. S. Stewart is Pres. Union Bridge & Construction Co.

THE WISCONSIN BRIDGE & IRON CO., Milwaukee, Wis., has been awarded the contract for the superstructure.

WINTHROP, WASH.—Sanger & Johnson, Twisp, Wash., were the only bidders for the construction of the bridge here on State Road No. 12, in Okanogan County, at $5,434. The bid was rejected as excessive.

MOUNT VERNON, WASH.—John W. Meehan, County Engr., has been authorized to secure plans and specifications for the construction of a 262-ft. steel span, 20 ft. in width in the clear, for the Mount Vernon bridge. Waddell & Hedrick, Consulting Engrs., New Nelson Bldg., Kansas City, Mo.

LA GRANDE, ORE.—P. S. EASTERDAY, Fairburg, Neb., has been awarded the contract for the construction of a bridge across the ditch near I. D. Smoot's farm, at $3,075.

PORTLAND, ORE.—Plans will be prepared by the engineer of the Portland Light & Power Co. for the construction of the Hawthorne bridge across the Willamette River, to replace the structure known as the Madison St. bridge. B. J. Josselyn is Pres., Portland Light & Power Co.

SAN LUIS OBISPO, CAL.—THE ATLANTIC GULF & PACIFIC CO., Monadnock Bldg., San Francisco, was awarded the contract on Nov. 5 by the Board of Supervisors for the construction of a bridge across Arroyo Grande Creek, at $10,589.

EDMONTON, ALTA.—A high level bridge will be built here by the Canadian Pacific Ry. Co., connecting this city and Strathcona. Estimated cost, $1,000,000. C. N. Monsarrat is Bridge Engr.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

SPRINGFIELD, MASS.—Edward L. Tilton, Arch., 32 Broadway, New York, N. Y., is preparing plans for a library building for the Public Library, Springfield. Cost, $290,000.

CHELSEA, MASS.—An extension to the U. S. Naval Hospital on the banks of the Mystic River in Chelsea, to cost $200,000, has been recommended by Presley M. Rixey, Surgeon-Gen., U. S. N., in his report to the Navy Department at Washington.

NEW YORK, N. Y.—At a recent meeting of the Municipal Art Commission, Robert W. de Forest, Pres., plans for an extension to Raymond St. jail, in Brooklyn, to cost $350,000, were approved. The jail will be of the same design as the present building. D'Oench & Yost, 289 Fourth Ave., are Archs., Bird S. Coler, Pres. of the Boro. of Brooklyn, has approved the plans.

The Commission also favored the preliminary drawings for the Nurses' Home and Training School of the Kings County Hospital, to cost $250,000. This will be five stories high, constructed of Harvard brick, trimmed with terra cotta and white stone.

NEW YORK, N. Y.—We are officially advised that the HAY FOUNDRY AND IRON WORKS, 114 East 28th St., has contract for the structural steel to be used in constructing a 12-story brick and stone store and office building at 384 Broadway, for Louis M. Jones & Co., 350 Broadway. Masonry bids are being received now. The building will be 50 × 100 ft., and will cost about $500,000. F. C. Browne, 143 West 125th St., is Arch.

Bids are asked until 10 a. m., Nov. 27, by Theodore A. Bingham, Police Comr., for making repairs to the heating systems of the various police station houses throughout the city and traffic squad stable.

TROY, N. Y.—Lawlor & Haase, Archs., 60 Wall St., New York, N. Y., are preparing plans for a mechanical and electrical laboratory building, 80 × 280 ft., for Rensselaer Polytechnic Institute, Troy, N. Y. Brick, stone and reinforced concrete, fireproofing, interior marble and tile, copper roof, structural iron and steel will be used. Cost, $350,000.

ALLEGHENY, PA.—Bids are asked until Dec. 3 for constructing a 2-story school building, with basement and sub-basement, for Tenth Ward, Allegheny. The structure will be constructed of brick, terra-cotta and concrete, 176 × 99.6 ft., and will cost $175,000. C. M. Barthberger & Son, Westinghouse Bldg., Pittsburg, Pa., are Archs.

JOHNSTOWN, PA.—The Johnstown Trust Co. is planning to erect an 8-story building to cost $150,000.

PHILADELPHIA, PA.—K. W. Peuckert, Arch., 310 Chestnut St., has awarded contract to the HAIBACH CONSTRUCTION CO., 26th and Thompson Sts., for erecting a 5-story brick, steel and concrete stock house for Joseph Straubmuller & Son, Trenton St. and Boston Ave.

The erection of nine new school buildings practically has been decided upon by the Board of Education. These buildings are to be located in the sections most urgently requiring relief from overcrowding. It is expected that the program of construction will include the following new schools: 42d Ward, twelve division building to replace Felton-ville School; 26th Ward, 30 division building to replace Jackson School; Fifth Ward, 40 division building; Second Ward, 30 division building; Twelfth Ward, 15 division building; 34th Ward, 24 division building; 23d Ward, 18 division building; Eleventh Ward, 24 division building, and 37th Ward, 15 division building. In addition to these buildings a new structure will be built to replace the Chandler School in the 18th Ward. It is hoped to erect a new building at 15th and Mt. Vernon Sts. for the Girls' Commercial High School.

PHILADELPHIA, PA.—Plans have been filed in the Bureau of Building Inspection for a $200,000 apartment house, to be built at 1722 Walnut St. for the Richardson estate. The structure will have a frontage of 42 ft. on Walnut St., and a depth of 169 ft., extending to Rittenhouse St. in the rear. It will have seven stories and a basement and be of fireproof construction throughout. To the second story the building will be faced with white marble and above the walls will be of brick, trimmed with terra cotta ornaments. Denby & Nute, 333 Fourth Ave., New York, are Archs.

Bids are asked until Nov. 27 for constructing the new building for the College of Physicians to be erected at the corner of 22d and Ludlow Sts. Plans were prepared by Cope & Stewardson, 320 Walnut St. The building will be two stories in height and will cost about $300,000.

PHILADELPHIA, PA.—Plans have been completed by Wilson, Harris & Richards, Drexel Bldg., for 50 cottages, pavilions and other buildings to be erected at Mount Alto, Pa., for the new State Sanitorium for Consumptives. Dr. Samuel G. Dixon, State Comr. of Health, has advertised for bids on the plans, which are to be seen at his office in the Academy of Natural Sciences, 19th and Race Sts. At the last session of the Legislature $1,000,000 was appropriated for this purpose. Wilson, Harris & Richards are preparing plans upon which estimates will soon be invited, for the erection of a central dining hall, employes' quarters, bath buildings, laundry and other structures at Mount Alto. Each of the cottages will accommodate four patients. They will be of frame, designed upon the most modern and scientific principles for the treatment and cure of tuberculosis. It is intended to finally have 100 cottages in the sanatorium.

BALTIMORE, MD.—Bids will be received by the Electric Park Co., 4 Light St., Baltimore, for building materials for constructing about 30 amusement buildings at Electric Park.

Simonson & Pietsch, Archs., 1212 American Bldg., are preparing plans for two 1-story car houses, 210 × 400 ft. and 190 × 365 ft., one at McCulloh St. and Park Terrace, and the other at Hartford Road and Smith's Lane, for the United Railways Co., Wm. A. House, Pres. Reinforced concrete, prism, glass and gas and electric fixtures will be used. Total cost, $160,000.

BALTIMORE, MD.—Samuel Bersterman, Arch., 1011 Asquith St., is preparing plans for 124 2-story dwellings, 14 × 70 ft., on Potomac, Hare and Canton Sts., and Fairmount Ave., for Walter L. Westphal, 1700 North Bond St. Press brick will be used for construction with tin roofs, water closets, porcelain wash-stands, bath tubs, gas fixtures and furnace heat. Cost, $150,000. The owner is builder.

The Sacred Heart Roman Catholic Church, Edward M. Weigel, Rector, Canton, will erect a granite church building at corner Third St. and Foster Ave., to cost $150,000. Chimes will be installed. Robert C. Ullrich, 1820 North Monroe St., is Arch.

*WASHINGTON, D. C.—Bids are asked by Elliott Woods, Supt. U. S. Capitol Bldg. and Grounds, Washington, until noon, Dec. 11, for furnishing and delivering, only, at the office building, U. S. Senate, Washington, D. C., the quantities of sheet copper called for: 6,250 sheets, 24 × 96 ins., equivalent to 100,000 sq. ft. of material.

WASHINGTON, D. C.—Bids were received as follows Nov. 12 at the office of the Superintendent of Construction of the National Museum Building, Washington, D. C., for 3,000,000 brick: Anacostia Brick Co., Washington, $7.42 per M.; WASHINGTON BRICK Co., Washington, $7.19 (awarded contract); Washington Brick & Terra Cotta Co., Washington, $7.59; C. F. Thomas & Sons Brick Co., Buckeyestown, Md., $9.25.

ATLANTA, GA.—Baptist Tabernacle and Institute has accepted plans by R. H. Hunt, News Bldg., Chattanooga, Tenn., for erection of proposed buildings; auditorium with seating capacity of 5,000; 3-story working girls' home, accommodating 100; nurses' dormitory and training-school, and 4-story infirmary

with accommodations for 150. About $250,000 will be expended. Dr. Len G. Broughton, 15 West Simpson St., is interested.

OCALA, FLA.—Bids are asked until 3 p. m., Dec. 19, by James Knox Taylor, Superv. Arch., Treasury Dept., for the construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of the U. S. post-office and court-house at Ocala.

MEMPHIS, TENN.—The Memphis Terminal Co., which is to build the union passenger station in this city, has decided upon the location of the terminal, which will face south on Iowa Ave., between Driver and Fourth Sts., and will cost about $3,000,000. It is estimated that it will take about three years to complete the new station. About 45 acres of land have been purchased and 15 more are needed.

CLEVELAND, OHIO.—We are officially advised that the dimensions of the west side market house are to be 120 × 241 ft. The building is to be of brick and steel construction. The contract for the foundation to the grade line has been let, and work under this contract is now in progress. The Board of Public Service contemplates receiving bids for the superstructure some time in December. The plans and specifications are being prepared by Hubbell & Benes, Archs., Citizens Bldg., Cleveland. W. J. Springborn is Dir. Bd. Pub. Service.

YOUNGSTOWN, OHIO.—Bids are asked by William B. Jones, Audr. of Mahoning County, until 11 a. m., Nov. 25, for excavation for the proposed $950,000 county court-house which is to be built here. All bids must be at a stated price per cubic yard.

CINCINNATI, OHIO.—J. Walter Stevens, New York Life Bldg., St. Paul, Minn., has finished plans for the 3-story Hughes High School building, 272 × 192 ft., to be built on McMillan St., for the Board of Education, William Grautman, Clerk, City Hall, Cincinnati. Press brick, Bedford stone, terra cotta and concrete will be used. Cost, $750,000. Bids will be received in about two weeks.

INDIANAPOLIS, IND.—D. A. Bohlen & Son, Majestic Bldg., are revising the plans for a 4-story building for the Y. M. C. A. Estimated cost, $140,000.

SOUTH BEND, IND.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Jan. 2, for the extension work on the post-office building in this city.

MICHIGAN CITY, IND.—The County Commissioners have decided to erect a court-house in this city. Estimated cost, $125,000. The contract will be let this year.

ANDERSON, IND.—Dunlap & Glossup and R. P. Daggett & Co., 28 Marion Block, Indianapolis, will prepare plans for a 3-story high school building for the School Board, Anderson. $125,000.

FORT WAYNE, IND.—Bids are asked by Weatherhogg & Crocker, Hamilton Bank Bldg., until Dec. 2, for erecting a 9-story hotel, 120 × 150 ft., for the Fort Wayne Hotel Co. The building will be constructed of hard brick, Bedford stone, terra cotta and reinforced concrete. Estimated cost, $300,000.

ANN ARBOR, MICH.—The COWING ENGINEERING CO., Citizens Bldg., Cleveland, Ohio, has been awarded the contract for the structural steel work for a Dental Building and Alumni Memorial Building to be erected at the University of Michigan, at Ann Arbor, Mich.

EAST ST. LOUIS, ILL.—James Knox Taylor, Superv. Arch. Treasury Dept., Washington, D. C., has awarded to the HIRAM LLOYD BUILDING & CONSTRUCTION CO., Odd Fellows Bldg., St. Louis, Mo., at $213,007, contract for constructing post-office building here. Noted on Oct. 31. Time, Sept. 1, 1909.

EVANSTON, ILL.—Edward G. Shank, 108 LaSalle St., Chicago, is making plans for a 36-apartment building, at Judson Ave. and Davis St., Evanston, Ill., for Harvey T. Weeks & Co., 108 LaSalle St., Chicago. The building will have three stories and will be 210 × 275 ft., built on court plan, of press brick, with white terra cotta trimmings. Cost, $300,000.

URBANA, ILL.—The Board of Regents of the University of Illinois contemplates the erection of a 3-story brick and stone Physics Laboratory, in the spring. Cost, about $225,000. The Board also contemplates erection of an addition to the Natural History Department building. Cost, approximately $175,000. J. M. White is Supt. of Bldgs. and Grounds. W. Carleys Zimmerman is State Arch.

CHICAGO, ILL.—Marshall & Fox, 164 Dearborn St., have completed plans for a warehouse, 240 × 101 ft., to be erected at Ohio and St. Claire Sts., for A. C. McClurg Co., Ogden T. McClurg, Secy., 215 Wabash Ave. Cost, $200,000. Bids will be received by architects.

CHICAGO, ILL.—Press reports state that the Pennsylvania R. R. Co. is about to construct a passenger depot on the west side of the Chicago River. The value of the property purchased is said to amount to about $25,000,000, and to extend from Van Buren St. to 31st St., 1½ miles south.

Plans are being prepared by Edward Benson, 1779 North Clark St., Arch., for a 3-story apartment house to be erected in North Paulina St., near Montrose Boulevard. The building will front 200 ft. with a depth of 165 ft., and will contain 54 apartments. It will cost $130,000.

DES MOINES, IOWA.—The plans of Proudfoot & Bird, Archs., Crocker Bldg., Des Moines, for the proposed city hall have been accepted.

ST. PAUL, MINN.—William Hamm, Pres. Hamm Brewing Co., 681 East Minnehaha St., City, is having plans drawn for a 4-story pressed brick, cut stone and reinforced concrete department store building to be built on Seventh, Eighth and Robert Sts. It will be 360 × 144 ft., with steam heating, electric lighting, electric elevators, steel ceilings, and tiled floors. Cost, $250,000.

WICHITA, KAN.—It is reported that the Atchison, Topeka & Santa Fe Ry. Co. will make improvements next year to include a passenger station here to cost about $200,000; also a roundhouse to cost $16,000. J. E. Hurley is Gen. Mgr.

OMAHA, NEB.—The School District of Omaha has voted $500,000 of bonds, to be used in construction of three new grade school buildings; a new North Side High School building; a wing to the Central High School building, and other buildings to be decided upon later. J. F. Burgess is Secy. School Board.

ST. LOUIS, MO.—The Building Committee of Board of Education, composed of George R. Lockwood, C. M. Woodward and others, has adopted revised plans by William B. Ittner, Commissioner of School Buildings, for erection of proposed school building to cost about $700,000, original plans for which were prepared by Mr. Ittner about a year ago. The building will be 289 × 250 ft.

KANSAS CITY, MO.—Howe & Holt, Archs., 315 East Tenth St., have let general contract to TAYLOR & WINN, Massachusetts Bldg., for constructing a stone synagogue, 75 × 84 ft., at Flora Ave., and Linwood Boulevard for Buia Jehudah congregation. Cost, $125,000. I. E. Bernheimer, 1125 Main St., and R. S. Crohn, 302 Hall Bldg., are the Building Committee.

Plans have been prepared and bids will be received by Howe & Holt, 15 East Tenth St., for constructing a 2½-story residence, 70 × 115 ft., at Gladstone Boulevard and Norledge Ave., for R. A. Long, Long Bldg. Carthage Bedford or Phenix stone and terra cotta will be material of construction. Cost $125,000.

FORT WORTH, TEX.—The Farmers Educational Co-operative Union of America, C. S. Barrett, Pres., will erect temple and office building, probably of brick, four or five stories high, in Fort Worth, where national headquarters will be removed from Little Rock, Ark. Between $150,000 and $300,000 will be expended, it is stated.

DENVER, COLO.—Frank S. Snell, Commonwealth Bldg., has plans for an apartment house to cost $400,000, and will form a company to build same. It will occupy the square bounded by Pearl St., Washington, 13th and 14th Aves.

ALBUQUERQUE, N. MEX.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Jan. 3, for construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of the U. S. post-office at Albuquerque.

TACOMA, WASH.—The F. S. Harmon Co. will erect a building with a frontage of 150 ft. on Pacific Ave. The structure will be eight stories high and will cost about $150,000. Ground will be broken within 60 days and the building, which will be of brick, will be completed about June 1, 1908.

SPOKANE, WASH.—Press reports state that the Northern Pacific Ry. Co. will erect a station here to cost $300,000 and will expend about $2,000,000 in elevating its tracks through the city. B. E. Palmer is Gen. Supt., Tacoma; W. L. Darling, St. Paul, Minn., is Ch. Engr.

PORTLAND, ORE.—One new high school and approximately 40 rooms for the extension of the grammar schools will be recommended by the Board of Education for erection during next year. The total cost of this construction will be between $250,000 and $300,000. It will probably require two years to erect the new high school building and bonds may be voted for that purpose, but it is the intention to have the new rooms for grammar grade pupils in readiness by the opening of the next school year and the taxpayers will be called on at the December election to authorize a levy high enough to provide $150,000 for this work. The Board favors the Patton tract on which to erect the new high school building.

BERKELEY, CAL.—Bids are asked until 7.45, Dec. 9, by the Board of Trustees of the Town of Berkeley, at the office of J. V. Mendenhall, Clerk, for constructing a town hall. Bakewell & Brown, 417 Montgomery St., San Francisco, are Archs.

Complete plans and drawings for the Doe Memorial Library on the University of California campus, were submitted to B. I. Wheeler, Pres., on Nov. 9, though ground for the structure was broken over a year ago and the work of putting in the concrete foundation is nearing completion. This library will cost over $2,000,000.

SAN FRANCISCO, CAL.—C. T. and J. E. Crocker have applied for a permit to erect a 10-story Class A store and office building at the corner of Bush and Battery Sts., to cost $275,000.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

NORWAY, ME.—Bids are asked until Jan. 1 by the Norway Water Co., S. D. Andrews, Pres., for constructing a 1,000,000-gallon reservoir.

NEW LONDON, CONN.—The following bids were opened on Nov. 11 by the Constructing Quartermaster, for installing a 6-in. tubular artesian well at Fort Terry: Isaac Ford, 108 Fulton St., New York, $10 per ft. with casing; $6.50 per ft. for cook strainer; testing, $2 per hour; Artesian Well & Supply Co., Providence, R. I., $10 per ft. with casing; without casing, $10 per ft.; cook strainer, per ft., $5; testing, per hour, $2.50.

HIGH FALLS, N. Y.—CAMPBELL & DEMPSEY have been awarded the contract for the construction of the new building of the New York water-supply, at about $10,000.

DURHAMVILLE, N. Y.—Bids are asked until noon, Nov. 26, by F. C. Stevens, Supt. Pub. Wks., Albany, N. Y., for the construction of a new aqueduct under the Erie Canal near here, on the line between the counties of Oneida and Madison, requiring the following work: Bailing and draining, removel of spillway, waste gates, etc., 12,000 cu. yds.; excavation, 1,340 cu. yds.; second-class reinforced concrete, 1,050 cu. yds.; third-class reinforced concrete, 860 sq. yds.; stone paving, 180 sq. yds.; stone paving, relaid, 210 cu. yds.; lining, 950 cu. yds.; puddle, 30 cu. yds.; rip-rap, 8,800 lin. ft.; foundation piles, 62 M. ft. B. M. wood sheet piling; 120,000 lbs. metal reinforcement; 11,000 lbs. metal in waste gates. Frederick Skene is State Engr. and Surv.

*ATLANTIC CITY, N. J.—See under Streets and Roads.

JERSEY CITY, N. J.—Bids are asked until 2p. m., Nov. 25, by the Board of Street and Water Commissioners for furnishing and delivering water-gate boxes and covers and manhole heads and covers. George T. Bouton is Clk Bd.

PHILADELPHIA, PA.—We are officially advised that the following bids were received on Oct. 22 by George R. Stearns, Dir. Pub. Wks., for the installation of pumping engines at the Lardner's Point pumping station: (A) two 20,000,000-gal. pumping engines complete, lump sum; (B) equivalent price: Walter Wood, 400 Chestnut St., Philadelphia, (A) $294,000; (B) $314,500; HOLLY MFG. CO., Buffalo, N. Y., (awarded contract), (A) $268,769; (B) $244,569; Southwark Foundry & Mch. Co., Washington Ave. and Fifth St., Philadelphia, (A) $272,900; (B) $277,900; Allis-Chalmers Co., Milwaukee, Wis., (A) $284,000; (B) $299,000; Bethlehem Steel Co., South Bethlehem, (A) $244,800; (B) $244,800.

FAIRCHANCE, PA.—Bonds for $20,000 for a water-works system have been voted by this city.

VERSAILLES, KY.—This city has voted $60,000 of bonds for the construction of water-works and sewerage systems.

ADRIAN, MICH.—Bids are asked until 10 a. m., Nov. 27, by Hope Welch, County Drainage Commissioner, Lenawee County, for the construction of the "Stoddard Tile Drain."

BLOOMINGTON, ILL.—Bids are asked until Nov. 28 for furnishing all material for 4,000 ft. 10-in. c.-i. water main. C. F. Fauntz is City Engr.

SAUK RAPIDS, MINN.—This city is having plans and specifications made for a new water-works system. Estimated cost, $25,000.

VELVA, N. D.—The contract for constructing the water-works system from plans of O. Claussen, Engr., National German American Bank Bldg., St. Paul, Minn., was awarded to the DES MOINES BRIDGE & IRON WORKS, Des Moines, Ia., at $10,000. S. H. Johns is City Audr.

ESTELLINE, S. DAK.—This city may have a water-works system constructed, the Mayor, City Clerk, and members of the Council having been appointed a committee to inspect the water-works system of adjacent towns.

FORT McKENZIE, WYO.—We are officially advised that the following bids were received on Nov. 14 by Capt. William D. Davis, Q. M., U. S. A., for constructing an 8-in. cast-iron water main from the U. S. reservoir to Ft. McKenzie, together with connection to post distributing system, in all about two miles of 8-in. pipe: Des Moines Bridge & Iron Co., Des Moines, $29,000; Trisway & Garrard, Sheridan, Wyo., $25,911.

*BILLINGS, MONT.—See under Streets and Roads.

HARRISONVILLE, MO.—Bonds for $30,000 have been voted by this city for the construction of a municipal water-works system.

ELDORADO, ARK.—The Eldorado Waterworks Committee contemplates installing water-works and will engage M. P. Jackson to make surveys. Estimated cost, about $35,000.

CLAREMORE, OKLA.—This city has voted $40,000 of bonds for extension of waterworks. A transmission line will be built from city limits to Verdigris River, a distance of five miles, necessitating the purchase of 8-in. cast-iron pipe, water filter and electrical supplies; the power is to be furnished by electric-light plant. Geo. W. Chalfont is Engr. in Charge; W. P. Johnson is City Clk.

RAYMOND, WASH.—The Raymond Light & Water Co. has been granted a franchise by the Council to erect, construct and maintain water pipes, hydrants and water-works in Raymond for furnishing the town with water for domestic use, fire protection and manufacturing purposes.

TACOMA, WASH.—The contract for digging six artesian wells at South Tacoma was let on Nov. 4 to the LOS ANGELES WELL DRILLING CO., at $3,200.

Resolutions have been adopted by this city providing for the construction of water mains in various streets. Estimated cost, $8,087. L. H. Pearson is City Clk.

HERMISTON, ORE.—This city may install a water-works system. Estimated cost, about $25,000.

PHOENIX, ARIZ.—Specifications for the construction of a water-works system are on file at the office of Engineering News, New York. Bids are asked until Dec. 2.

SOURIS, MAN.—This city contemplates building a dam on the Souris River for the development of water power. D. A. Keizer, 490 Main St., Winnipeg is Consulting Engr.

WEYBURN, SASK.—The installation of a water-works system with a reservoir capacity of 50,000,000 gals. is contemplated. Willis Chipman, 108 Bay St., is Consulting Engr.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—We are officially advised that the following bids were received on Nov. 15 by the Metropolitan Sewerage Board for extension of sewer in Brookline: (a) Contract 61, (c) Contract 62: (a) Kelly, 15 Intervale Park, Dorchester, $80,400; (a) George J. Regan, 92 Dorchester, $80,421; (a) James Son, Brookline, $64,510, (b) $69,540; (a) George M. Bryne Co., St., $63,120; (a) T. J. O'Connel, St., Dorchester, $61,400, (b) $54,672; (a) Donovan & Phillips, St., East Boston, $59,515; (a) Doyle, 22 Weld Ave., $59,423; Nawn Construction Co., 82 Savin 450, (b) $53,100, (c) $68,728; (a) Petitti, 23 Court St., $56,980, (b) Patrick McGovern, 6 Beacon St., $71,486; (c) John E. Palmer, Bldg., $63,166; (c) Charles G. Co., 249 Pleasant St., Winthrop, $59,

Bids received on Nov. 15 by the Metropolitan Water and Sewerage Board for extensions of high-level sewer in Brighton: Contract 63, (b) Contract 64, (c) 65: (a) James Driscoll & Son, $67 Falvey & Kelly, $56,064, (b) $14 Coughlin & Shiels Co., Boston, $5 $97,800; (a) Bruno & Petitti, $5 $107,600; (a) Patrick McGovern, $5 $95,150, (c) $72,200; (a) Hugh Na Contracting Co., $51,910, (b) $94,150, 450; (a) D. F. O'Connell, 19 E Dorchester, $51,056, (b) $92,400, (c) (a) George M. Bryne Co., $50,856. M. Brown is Ch. Engr. Bd.

SOUTHBRIDGE, MASS.—The following bids were opened on Nov. 12 by the Board of Sewer Commissioners for the construction of the new sewer bed: C. E. TRUMBULL, Boston, $30,582 (awarded contract); George M. Bryne Co., 7 Water St., Boston, $31,811; John F. Gill & Co., Somerville, 79 Journal Bldg., $35,689; John E. Palmer, 79 Journal Bldg., Boston, $ Bruno & Petitti, Boston, $39,484; Paving Co., Worcester, $45,935; Frank Williams, Boston, $51,241; Donovan & Doyle, 22 Weld Ave., Boston, $71,

CORNWALL, N. Y.—Plans have been prepared for the construction of a sewer system for this city. Estimated cost, $

CHARLOTTE, N. Y.—Bids are asked until Nov. 25 by the Sewer Commissioners, Chas. Salmon, Chn., 330 Powers Bldg., Rochester, for constructing a system of sanitary sewers at Summerville.

JERSEY CITY, N. J.—Bids are asked until 2 p. m., Nov. 25, by the Board of Street and Water Commissioners for the construction of a 15-in. vitrified pipe sewer in Beacon Ave. George T. Bouton is City Clk.

*SCOTTDALE, PA.—We are officially advised under date of Nov. 14th that the Borough Council has rejected all bids for constructing sewers, as improvement and funding bonds were not sold in September, and owing to financial conditions and the lateness of the season. The following bids were received on Aug. 1 by A. L. Porter, Boro. Secy., for constructing sewer system, consisting of about 2¼ miles of 8 to 36-in. sewers, using (A), pipe or (B), concrete: John B. Bolt, Greensburg, Pa., $25,944, (B) $25,540; The J. B. Sheets Co., Kelley and Murtland Sts., Pittsburg, Pa., (A) $20,140, (B) $20,247; Thoney Pietro, Indiana, Pa., (A) $26,039; Neelan & Daly, 25 Perrysville Ave., Allegheny, Pa., (A) $26,338, (B) $24,346; Westmoreland Construction Co., Greensburg, Pa., (A) $25,940, (B) $26,479; L. I. Dick, Scottdale, Pa., (A) $23,000, (B) $27,043. J. B. Hogg, Connellsville, Pa., is Boro. Engr. This work and the erection of a garbage furnace will be taken up in the spring. (Noted on Aug. 8.)

LANCASTER, PA.—The contract for the construction of 2,200 ft. of 108-in. reinforced concrete sewer remaining for the completion of the Water St. sewer was awarded on Nov. 11 by the Special Sewer Commission to REILLY & RIDDLE, Lancaster, at $52,842.

HOBOKEN, PA.—It is stated that plans for the erection of a sewage disposal plant at the Allegheny City home at Claremont have been approved by Dr. Samuel G. Dixon, State Health Comr. Estimated cost, $10,000.

*WASHINGTON, D. C.—Specifications for constructing sewers in the District of Columbia are on file at the office of Engineering News, New York. Bids are asked until Nov. 25.

*LOUISVILLE, KY.—Bids are asked until noon, Dec. 17, by the Commissioners of Sewerage, for the construction of a sewer, known as Section "B," of the Southern Outfall Sewer Contract No. 2, the work consisting of the following sizes and lengths: 15 ft. 2 in. by 15 ft. 6 in. —3,322 ft. long; 14 ft. 5 in. by 15 ft.—1,820 ft. long; 13 ft. 11 in. by 14 ft. 3 in.—970 ft. long.

The principal items in the Engineer's estimate of the work are approximately as follows: Excavation, 6,143 lin. ft., depth 22 ft. to 42 ft.; concrete, 17,000 cu. yds.; reinforcing steel bars, 1,200,000 lbs.; Portland cement, 21,000 bbls. P. L. Atherton is Chn. Comrs. of Sewerage. J. B. F. Breed is Ch. Engr.

GRAND VIEW, OHIO.—The Ohio Realty & Construction Co. contemplates erecting a private sewage disposal plant in Grand View. Estimated cost, $60,000.

ORRVILLE, OHIO.—Specifications for the construction of a complete sanitary sewerage system are on file at the office of Engineering News, New York. Bids are asked until Dec. 9.

GIRARD, OHIO.—The following bids were received for the construction of the first section of the proposed new trunk sewer: C. L. Allen, Marion, Ohio, $19,[illegible] John Grady, Youngstown, Ohio, $21,553; S. H. De

Groodt, Youngstown, Ohio, $21,521; G. A. Galidini & Co., Girard, $20,847. The contract has not been formally awarded, but is expected to go to the lowest bidder at the next meeting of council.

INDIANAPOLIS, IND.—Plans and specifications have been adopted by the Board of Public Works for the new 26th St. sewer. Estimated cost, $25,000.

Bids will probably soon be asked for the construction of four sewers, one in Onasso Ave., one in the first alley north of 29th St., one in 31st St., and one in 26th St. Plans for these improvements have been ordered by the Board of Public Works. Blaine H. Miller is City Engr.

AURORA, IND.—We are officially advised that all bids received on Nov. 11 by the Common Council for the construction of sewers were rejected. Bids will not be called for until February or March. Frank D. Johnston is City Clk. Chas. H. Gore is City Engr.

GRAND RAPIDS, MICH.—Plans are being prepared for the construction of the 8-ft. trunk sewer to form a continuation of the Broadway sewer. Estimated cost, $90,000. L. W. Anderson is City Engr.

CAIRO, ILL.—Bids are asked until 10 a. m., Nov. 25, by the Board of Local Improvements for the construction of vitrified tile pipe sewers, house connections and inlets and brick manholes in Division St., Center St. and 21st St. Ernest Nordman is Secy. Bd.

DUQUOIN, ILL.—The Board of Public Improvements awarded the contract on Nov. 7 for the construction of the sewer system to REEB BROS., Belleville, at $24,500.

SPRINGFIELD, ILL.—JOHN SPENCE has secured the contract for constructing sewer in Miller St. at 72 cts. per sq. ft. 18-in. sewer, 39 cts. per ft. for 12-in. inlet pipe, and $24 each for manholes. Frank H. Hamilton is City Engr.

GREEN BAY, WIS.—Bids are asked until 3 p. m., Nov. 27, by the Committee on Sewers and Plumbing of the Common Council, for the construction of a 12-in. vitrified pipe sewer in Grignon St., from Quincy St. to Monroe Ave. W. W. Reed is City Engr.

DES MOINES, IOWA.—Bids are asked until 11 a. m., Dec. 4, by the Board of Public Works for the construction of a 12-in. vitrified clay pipe sewer in Jefferson St., from the center of East 12th St. to the center of East 13th St., and in East 12th St., from the center of Jefferson St. to a point 40 ft. north of the north line of Washington St., 968 lin. ft.

SANTA MONICA, CAL.—Plans and specifications are asked until Dec. 21 by Thomas H. James, City Engr., for constructing a septic tank, also a pier 1,600 ft. long, from the medium tide line of the Pacific Ocean, extending into the Pacific Ocean, for the purpose of carrying an outfall pipe from the septic tank. The City Engineer will receive proposals of plans and specifications in detail and estimates for construction of improvements either separately or combined.

ELKO, NEV.—Plans for the construction of a sewer system have been drawn up. Estimated cost, $60,000.

GARBAGE DISPOSAL.

NEW YORK, N. Y.—Bids are asked until noon, Dec. 2, by W. Bensel, Comr. of Street Cleaning, for furnishing all labor and materials required for removal of snow in the Boroughs of Manhattan and the Bronx, and Brooklyn.

*FORT HANCOCK, N. J.—Bids are asked until 2 p. m., Dec. 17, by Capt. M. N. Falls, Constructing Q. M., U. S. A., for the construction of a garbage crematory.

ALTOONA, PA.—Bids are asked by the Board of Health until Dec. 4 for the collection and sanitary disposal of all city garbage for a period of one, three, five or ten years. Samuel B. Trees is Secy.

COLUMBUS, OHIO.—The Mayor on Nov. 8 signed the ordinance passed by the City Council appropriating $150,000 for the construction of a garbage disposal plant. Henry C. Maetzel is City Engr.

LAWRENCE, IND.—The contract for the construction of a garbage crematory at Fort Benjamin Harrison, Ind., has been awarded to LEWIS & KITCHEN, 433 Wabash Ave., Chicago, Ill., at $4,200.

EVANSVILLE, IND.—Bids are asked by the Board Public Works until Nov. 26 for sweeping and cleaning brick and asphalt streets from Jan. 1, 1908, to Dec. 31, 1908. W. F. Wunderlick is City Clerk.

SPOKANE, WASH.—The contract for erecting an 80-ton crematory to increase the capacity of the present plant has been awarded by the Board of Public Works to the DECARIE MFG. CO., 23 South Second St., Minneapolis, Minn., for $60,000.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

YORK, ME.—H. S. TUTTLE & CO. have been awarded the contract by Mrs. S. S. Allen for the construction of various roads through her property on the South Side, at about $10,000.

NEW LONDON, CONN.—Bids are asked until 11.30 a. m., Dec. 11, by Capt. William E. Horton, Q. M., U. S. A., for the construction of macadam roads and sidewalks, and for grading at Fort H. G. Wright.

NEW YORK, N. Y.—The Barber Asphalt Co., 114 Liberty St., was the lowest bidder on Nov. 11 for regulating, grading, curbing and paving with asphalt block pavement on a concrete foundation the roadway of Onderdonk Ave., from Elm (Harte) St. to Stanhope St., Second Ward, Borough of Queens, at $10,661.

The Hastings Pavement Co., 25 Broad St., was the only bidder on Nov. 11 for laying sidewalks and paving with asphalt block pavement on a concrete foundation the roadway of Academy St., from Freeman Ave. to Wilbur Ave., first ward, Borough of Queens, at $9,454.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Dec. 4, by Bird S. Coler, Boro. Pres., for regulating and paving various streets with asphalt on a concrete foundation and for grading lots on the south side of 47th St., between Second Ave. and Third Ave., known as lots Nos. 22 and 23.

FLEMINGTON, N. J.—Bids are asked until Dec. 12, by the Board of Chosen Freeholders, John H. De Mott, Dir., for macadamizing the public road between the counties of Hunterdon and Somerset on the New Brunswick and Easton Turnpike, and continuing over course of said road through White House, White House Station to Sta. 342, near Pleasant Run, a distance of 34,200 ft. Grant Davis is County Engr.

*ATLANTIC CITY, N. J.—Bids are asked until 8 p. m., Nov. 25, by the City Clerk for repaving Pacific Ave. and constructing drainage conduits, the work requiring about 23,500 sq. yds. of asphalt pavement, 1,040 lin. ft. of bluestone heading stones, one drainage system, complete, consisting of 25 lines of conduits, including new vitrified fire clay block gutters upon concrete around the 50 curved corners at the ends of the conduits. J. W. Hackney is City Engr.

*WOODBURY, N. J.—Specifications for paving South Broad St., 2,950 cu. yds., with Warren's bitulithic pavement are on file at the office of Engineering News, New York. Bids are asked until Nov. 25.

SCOTTDALE, PA.—A. L. Porter, Secy. Town Council, desires quotations on paving brick by the carload.

KOPPEL, PA.—The Koppel Land Co., Machesney Bldg., Pittsburg, Pa., has awarded J. G. McGUIRE & CO., New Brighton, Pa., the contract for grading, paving and sewering this town, which is just being laid out.

BUTLER, PA.—NORMAN J. BOYER has been awarded the contract for grading, curbing and paving North Main St. for a distance of about one mile.

WASHINGTON, D. C.—The contract for laying cement sidewalks on both sides of Rhode Island Ave. northeast under the Baltimore & Ohio R. R. viaduct crossing, was let on Nov. 11 by the Commissioners of District of Columbia, to the R. J. BEALL CONSTRUCTION CO., 1217 F St., Northwest, Washington, at $1.27½ per sq. yd. Other bidders were: Fred Drew, Colorado Bldg., $1.30 per sq. yd.; R. E. Bolseau, 3247 Prospect Ave., Northwest, $1.56 per sq yd.

FORT MYER, VA.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of a road at Fort Myer. Bids are asked until Nov. 25.

*COLUMBIA, S. C.—Plans and specifications for paving Main St. with either vitrified brick, woodblock, asphalt or bitulithic are on file at the office of Engineering News, New York. Bids are asked until Nov. 25.

TOLEDO, OHIO.—The contract for paving with vitrified brick, Thayer St., from Broadway to Locust St., was awarded on Nov. 11 by the Board Public Service to the OHIO PAVING CO., at $3,927. The same firm was awarded the contract for paving Balfe St. at $4,440. Frank I. Consaul is Ch. Engr. Bd.

AKRON, OHIO.—We are officially advised that the following were the lowest bidders on Nov. 5 for (A) paving Forge St., the work requiring 638 ft. straight curb, 300 ft. re-set curb, 1,775 sq. yds. paving, 1,800 cu. yds. excavation, 2,800 sq. ft. cement walk, 500 cu. yds. sand ballast; (B) paving West Thornton St., the work requiring 4,650 ft. straight curb reset, 165 ft. curved curb reset, 250 ft. new curved curb, 11,166 sq. yds. paving, 5,600 cu. yds. excavation, 1,200 sq. ft. cement walks, six manholes reset to grade, two catch basins, 150 ft. 20-in. storm sewer, 450 ft. 8-in. sanitary sewer, 750 ft. 15-in. storm sewer, 3,165 cu. yds. sand ballast: (C) Paving Rhodes Ave., the work requiring 2,092 ft. straight curb, 60 ft. curved curb, 3,320 sq. yds. paving, 950 cu. yds. sand ballast, three manholes, 3,000 cu. yds. excavation. (A) James Wildes, College St., Akron; (B) P. T. McCourt, South Main St., Akron; (C) E. McShaffrey & Son, Akron. C. H. Watters is Secy. Bd. Pub. Ser-

CRAWFORDSVILLE, IND.—Bids will soon be asked for the construction of a vitrified roadway in Walnut St. from Market to College Sts. and for the construction of a vitrified roadway and cement curb and gutters in College St., from Grant to East St., and in Water St., from Market to College St. H. B. Hulett is City Clk.

MARTINSVILLE, IND.—Bids are asked until 2 p. m., Dec. 2, by the Commissioners of Morgan County for the construction of 8,165 ft. of gravel road, known as the Jones road, in Jackson Township. E. E. Thornburg is County Audr.

ANDERSON, IND.—Bids are asked until 2 p. m., Dec. 12, by the Commissioners of Madison County for the construction of 9,140 ft. of free gravel road. James Kinnard is County Audr.

COLUMBUS, IND.—Bids are asked until 10 a. m., Dec. 2, by the Commissioners of Bartholomew County for the construction of 7,942 ft. of free gravel road in Clifty Township, said road to be completed on or before Nov. 1, 1908. John M. Davis is County Audr.

BEDFORD, IND.—Bids will soon be asked by the Commissioners of Lawrence County for the construction of a macadamized road in Mitchell Township, the citizens of said township having voted a tax of $30,000 for the improvement.

INDIANAPOLIS, IND.—Bids are asked until noon, Dec. 4, by the Board of Commissioners of Blackford County for the construction of the Bugh macadam road in Washington Township, about 15,810 ft. in length. L. W. Daugherty is County Audr.

MARSHALLTOWN, IOWA.—Bids are asked until 8 p. m., Nov. 23, by the City Clerk for grading Hughes St.

DES MOINES, IOWA.—Bids are asked until 11 a. m., Nov. 23, by the Board Public Works for paving Center St. from the west line of First St. to the east line of Third St. with No. 1 vitrified paving blocks on 5 inches of Portland cement concrete foundation with pitch filler.

Bids are asked until Dec. 4 by the Board of Public Works, W. W. Wise, Chmn., for paving West 16th St. with vitrified blocks, and Washington Ave. with asphalt, about 3,026 and 962 sq. yds., respectively; also combined curb and gutter on 14th St. and Prospect Ave., in all about 3,802 lin. ft.

*BILLINGS, MONT.—Bids are asked until 8 p. m., Feb. 4, by the City Council for paving with shale brick certain streets, the work consisting of, approximately, 6,305 sq. yds. of shale brick pavement.

Bids are asked until 5 p. m., Feb. 4, by the City Council for macadamizing and drainage of, and building cement gutters in certain streets, the work consisting of, approximately, 86,653 sq. yds. of gravel macadam; 3,000 lin. ft. of sewer, complete; 12 manholes, complete; 15 catch basins; 17,400 lin. ft. of gutter, complete. J. D. Matheson is City Clk.

ST. LOUIS, MO.—The following contracts were awarded on Nov. 5, by the Board of Public Improvements for (A) the improvement of Idaho Ave., from Loughborough St. to Kansas Ave., (B) the improvement of Loughborough St., from Alabama to Colorado Aves., (C) the improvement of Columbia Ave., from Kings Highway Boulevard to Beresford Ave.: (A) RUECKING CONSTRUCTION CO., Marine Ave. and Gasconade St., $13,693; (B) RUECKING CONSTRUCTION CO., $6,284; (C) WILLIAM H. REDEMEYER, $11,487.

LA JARA, COLO.—Bids are asked until noon, Nov. 25, by T. W. Jaycox, State Engr., Denver, for the construction of about 12 miles of wagon road from this city to Sanford and Manassa, Conejos County. L. A. Norland is County Comr. at La Jara.

COLORADO SPRINGS, COLO.—Plans and specifications prepared by E. R. Ashworth, City Engr., for the improvement of parking district No. 3, lying on Cascade Ave., between Platte Ave. and Cache La Poudre St., have been accepted by a special committee of the Board of Aldermen. Estimated cost, $27,000. Bids will soon be asked.

COLLBRAN, COLO.—Bids are asked until Nov. 25 by David Anderson for the construction of a wagon road about 4½ miles long.

WALLA WALLA, WASH.—C. H. LANSING, College Place, Wash., has been awarded the contract for the construction of 1½ miles of macadam road between this city and College Place, at $9,750.

FRESNO, CAL.—The Board of Supervisors of Fresno County has authorized the construction of a public highway, six miles long, to be graded and bridged and to be ready by Nov. 1, 1908.

SAN FRANCISCO, CAL.—THE EUREKA CONSTRUCTION CO. has been awarded the contract by the Board of Harbor Commissioners for improving a roadway in Center St. at $7,303. The contract for repaving part of East St. was let to C. L. HARNEY at $12,625.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

WATERVILLE, ME.—The Central Maine Potato & Starch Co. has been organized here to convert potatoes in too poor a state for the general market into starch. It is planned to build a mill in this city with a capacity of six tons a day. Mills probably will be built at Dover, Corinne and Norridgewock, Me.

EASTPORT, ME.—The contract for constructing the can-making factory for the Seacoast Canning Co., at Eastport, has been awarded to FRANK B. GILBRETH, 34 West 26th St., New York, N. Y. Charles T. Main, 45 Milk St., Boston, is Engr. The structure is to be two stories in height, 120 ft. wide by 130 ft. long. The site of the proposed building is at tidewater, where at high tide water will surround it on three sides. To insure security 25-ft. foundations of granite, averaging 25 ft. in height, will be placed beneath the structure proper. The tide has a variation of 20 ft.

WORCESTER, MASS.—ELI BELISLE, 19 Portland St., Worcester, has contract, at $22,450, for the erection of a 4-story brick workshop for the Water Department. Geo. C. Halcott is Supt. of Public Bldgs. Frost, Briggs & Chamberlain, 518 Main St., Worcester, are Archs.

SPRINGFIELD, MASS.—D. C. Shea, 78 Alden St., has the general contract, and ALEXANDER PEREAULT the carpentry, for a 4-story brick factory building, for Harry Carr, Carr Bldg., to cost $30,000. Kirkham & Parlett, 25 Harrison Ave., Springfield, are Archs.

LOWELL, MASS.—Contracts for a factory building for the American Mason Safety Tread Co. have been let as follows: Stone work, JOHN SIMPSON, 67 Methuen St., Lowell; carpentry, CHARLES P. CONANT, 606 Beacon St., Lowell; brick work, PATRICK CONLON, 339 Concord St., Lowell. Millard F. Davis, Hildreth Bldg., Lowell, is Arch.

HARTFORD, CONN.—A permit has been issued to the Springfield Elevator & Pump Co. for a 1-story brick factory building, 220 × 81 ft. The foundation will be of concrete, and the walls of brick.

LYONS, N. Y.—The New York Central & Hudson River R. R. Co. has purchased the Elias Richmond farm in East Lyons, and will erect repair shops on the site, which is intersected by the Rochester, Syracuse & Eastern R. R. and the Erie Canal. A. W. Carpenter is Engr. of Structures, New York.

ELIZABETH, N. J.—We are officially advised that the Standard Oil Co., 26 Broadway, New York, is to build a refinery on a 700-acre lot at 155 South Front St. The first contract in connection with this improvement has been awarded to the FOUNDATION CO., 115 Broadway, New York. This contract includes borings, the construction of a reinforced tank platform, concrete piles for the support of the latter; also for the tank house, warehouse, filling house and office.

MEADVILLE, PA.—The G. M. Yost Co., Mechanicsburg, Pa., will build a plant at Meadville, Pa., for the manufacture of vises. Cost, $75,000. James O. Barrett, Meadville, Pa., is interested.

PHILADELPHIA, PA.—J. E. & A. L. PENNOCK, Land Title Bldg., Philadelphia, have been awarded the contract to build an addition to the steam generating plant of the Spreckels Sugar Refining Co., on the Delaware River at Reed St. The new building will provide space for a number of new boilers. It will be three stories and a basement in height, and will measure 100 × 57.6 ft. The materials of construction are to be brick, concrete and steel. The plans call for a smokestack 10 ft. in diameter and 170 ft. high, to be constructed of steel and brick. J. F. Pool is Engr.

UNIONTOWN, PA.—The Keystone Bottle Mfg. Co. will remodel a building at Uniontown, to be used for bottle factory. Cost, $20,000.

PITTSTON, PA.—The Exeter Machine Works, Pittston, Pa., manufacturer of elevating and conveying machinery, etc., intends building an addition to its shops for the manufacture of J. Stone & Co.'s manganese bronze ash expellers and other marine appliances. The building will be about 60 × 84 ft., of brick construction, and will be equipped with modern appliances.

LOCK HAVEN, PA.—Edward F. Bachelder has purchased a site at First St. and Bellefonte Ave., upon which he will erect a building for the erecting and cutting of monuments, etc., from marble and granite. The plant will be equipped with air machinery.

ROCHESTER, PA.—The C. G. Smith Co., Park Bldg., Pittsburg, have purchased a site of five acres of land at North Rochester, and will erect a modern plant for the manufacture of emery wheels, emery cloth, etc. Plans are under way, and contracts will be awarded shortly. The main building will be about 70 × 100 ft., and the kiln building about 60 × 70 ft. The plant will be equipped with modern machinery, none of which has been contracted for, and work will be started within a month on the erection. About 200 men will be employed. All buildings will be two stories in height, and of brick.

WASHINGTON, D. C.—Bids were opened Nov. 16, at the office of the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the installation of a laundry equipment at the Naval Hospitals at (a) Washington, D. C., (b) New Fort Lyon, Colo.: Troy Laundry Machinery Co., 33 Warren St., New York, (a) $2,890, (b) $2,975; Brooklyn Specialty Co., Brooklyn, N. Y., (b) $4,515, $4,015; American Laundry Machinery Mfg. Co., 132 West 27th St., New York, (a) $2,850, (b) $3,150.

ROCK HILL, S. C.—The Harriss Mfg. Co. is reported to have secured plans and specifications for erection of 75 × 300-ft. building for its cotton yard and collar pad plant.

WAYCROSS, GA.—South Atlantic Car & Mfg. Co. will rebuild plant recently reported burned at a loss of $250,000. Capital stock will be increased from $250,000 to $350,000, and $300,000 of bonds will be issued.

GORDON, ALA.—We are officially advised that R. L. Beasley, manufacturer of stump-pulling and pile-driving appliances, will establish a factory soon. He will purchase a hoisting engine and other equipment.

SANDUSKY, OHIO.—The proposed foundry plant of the Bay View Foundry Co. will consist of a brick structure, 70 × 150 ft., to cost about $25,000. Plans have been prepared by the Osborn Engineering Co., Osborn Bldg., Cleveland.

CINCINNATI, OHIO.—The Camp Washington Brewery Co., which purchased the old Adam Brewery, Straight St. and Miami Canal, will make improvements to cost about $25,000. The Cincinnati Brewery Engineering & Construction Co., Eighth and Culvert Sts., will prepare plans.

BUCYRUS, OHIO.—The Bucyrus Steel Castings Co., at Bucyrus, will erect an addition 150 × 400 ft. The plans are now being prepared, and the contract for the work will be awarded about Jan. 1. The addition will be of structural steel and brick, with concrete foundations.

BAY CITY, MICH.—We are officially advised that the following machinery contracts have been let in connection with construction planing and saw mills for W. D. Young & Co.: Planing mill machinery, AMERICAN WOODWORKING MACHINERY CO., West St. Bldg., New York, N. Y.; saw-mill machinery, M. GARLAND CO., Bay City; engines, FISHER & STOWELL. The buildings will be constructed of brick and wood, 249 × 210 ft., one and two stories high. Buildings will cost $35,000; machinery, $95,000. The work is in charge of the Wilcox Engineering Co., Eddy Bldg., Saginaw, Mich.

MANISTEE, MICH.—Morris A. Goldberg will erect a $20,000 shirt factory here, to be completed within a year, and to employ 300 hands. It will also manufacture the boxes used and will operate a laundry. The Manistee Commercial Club has agreed to pay a bonus of $15,000 to defray expenses for the erection of a 3-story building.

GRAND RAPIDS, MICH.—C. HOERTZ & SON, Porter Block, have been awarded the contract for rebuilding the burned plant of the Grand Rapids Clock & Mantel Co. The building will be three stories high, 90 × 110 ft., frame, with brick fire walls.

KALAMAZOO, MICH.—The Enameled Steel Tank Co., capital $60,000, has been incorporated with Carl H. W. Zwermann, Pres. and Mgr., and will erect a 2-story brick building, 60 x 80 ft.

DETROIT, MICH.—The American Wheel & Vehicle Co. has decided to establish a plant in Detroit. The plant will be located at St. Antoine St. and Trombly. Plans for the buildings are being prepared by W. D. Butterfield, 1093 Brooklyn Ave., Detroit.

WATERTOWN, WIS.—O. R. Biefeld & Co. contemplate erecting an addition to their steel foundry and machine shop, to cost $20,000.

OMAHA, NEB.—We are officially advised that the House of the Good Shepherd Laundry will erect a new laundry, to cost $100,000. John Latenser, Bee Bldg., Omaha, is Arch.

Also, the West Omaha Ice & Coal Co. will construct a 25-ton ice-making plant. L. H. Gardner, 201 South Tenth St., Omaha, is Engr. for both projects.

CHELTENHAM (St. Louis post-office), MO.—St. Louis Terra Cotta Co., 5818 Manchester Ave., St. Louis, Mo., has purchased six acres of land at Cheltenham to erect new plant for manufacturing terra-cotta products. Plans for building are being prepared. About $150,000 will be invested.

MUSKOGEE, OKLA.—Building and equipment will be erected here by the Union Machine & Foundry Co., for the purpose of manufacturing hydro-carbon engines and alcohol motors for mine haulage. About $40,000 will be expended.

HOMESTEAD, OKLA.—The Cement Products Mfg. Co. will engage in manufacture of wall plaster, plaster board, finishes, etc., and will erect 50 x 350-ft. building at cost of $50,000; cost of machinery and power, $20,000. H. E. Wilson is Gen. Mgr.

HOQUIAM, WASH.—Plans are being prepared to erect a sawmill and shingle mill near this town. The company is composed of J. O. Stearns, C. W. Stine, George L. Davis and A. H. Kuhn. The company owns 800 acres of land, which will cruise about 40,000,000 ft. of timber. The mills will be built near Pacific, and will have a cutting capacity of 125,000 ft. a day. The shingle mill will cut about 300,000 shingles a day. The building and equipping of both plants will cost $200,000.

PORTLAND, ORE.—The National Wood Pipe Co., Sixth and Mateo Sts., Los Angeles, will establish a factory here. W. H. Hampton, Los Angeles, Cal., is Pres.

HAMILTON, ONT.—The Dominion Power & Transmission Co., it is reported, has announced its intention of building a car factory in the east end of the city.

LETHBRIDGE, ALTA.—Plans have been prepared, it is stated, for the erection of a steel plant on the property of the Royal Collieries, Ltd., at Lethbridge. The entire plant, including tipples and bunkers, which will cost in the neighborhood of $300,000, will be of steel. A. C. Flumerfelt and H. N. Galer are interested.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

EXCAVATION.—Youngstown, Ohio.—See under Buildings.

PAVING BRICK.—Scottdale, Pa.—See under Streets and Roads.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

SCOWS.—New York, N. Y.—Bids are asked until noon, Nov. 27, by W. Bensel, Comr. Street Cleaning, for building 15 scows.

DRAINAGE.—Greenville, Miss.—Contract has been awarded to JORDAN WYNN of Greenville, for drainage ditch work, estimated at 30,000 sq. yds. Price is 18.95 cts. a sq. yd.

RETAINING WALL.—Steubenville, Ohio.—Bids are asked by T. W. Vance, Clk. Bd. Public Service, until noon, Dec. 2, for constructing a cement retaining wall along Fisher's Run.

LEVEE.—Vicksburg, Miss.—ROACH & STANSELL, railroad and levee contractors, of Memphis, Tenn., have been awarded the contract for 115,000 cu. yds. of levee work in Arkansas.

*LIGHT-STATION. — Alaska. — Bids are asked by the Light-House Engineer, Portland, Ore., until noon, Jan. 14, for construction of the Hinchinbrook Entrance light-station, Alaska.

CONSERVATORY.—Tacoma, Wash.—Bids are asked until noon, Dec. 2, by I. Jay Knapp, Arch., for construction of a steel frame conservatory to be built for the Metropolitan Park District, in Wright Park.

RETAINING WALLS.—New London, Conn.—Bids are asked until Dec. 11 by Capt. Wm. E. Horton, Q. M., U. S. A., New London, Conn., for constructing a timber retaining wall and for filling and grading around wharf at Fort H. G. Wright.

REPAIRING STEAMER.—New York, N. Y.—Bids are asked until 11 a. m., Dec. 3, by John V. Coggey, Comr. Correction, for furnishing all the labor and materials required for making and completing the alterations and repairs to the steamer "Massasoit."

DITCH.—Piper City, Ill.—The Commissioners of Drainage District No. 1, Piper City, awarded contract on Nov. 9 to G. A. McWILLIAMS, of Walnut, Ill., for the construction of nine miles of drainage ditch; 135,000 cu. yds. excavation, at 13.95 cts. per cu. yd.

TELEPHONE LINE.—Fort Qu'Appelle, Sask.—The provincial department of telephones is making arrangements for the construction of a long distance telephone line from here to Balcarres, a distance of approximately 32 miles. F. J. Robinson, Dept. of Public Works, Regina, Sask.

DITCH.—Prophetstown, Ill.—Bids were received on Nov. 11 by the Commissioners of the Big Slough Special Drainage District, counties of Henry and Whiteside, at the office of F. W. Sears, Engr., Prophetstown, for the enlargement of the main ditch of this drainage district, requiring the removal of about 353,000 cu. yds. of material. Contract was awarded to C. A. McWILLIAMS, of Walnut, Ill., at 6¼ cts. a cu. yd.

MEMORIAL ARCH.—Tuscola, Ill.—Prof. Newton A. Wells and Prof. James M. White, both connected with the Department of Architecture, University of Illinois, Champaign, have made designs for a memorial arch, 27 ft. high, 24 ft. wide and 10 ft. deep, at Tuscola, to honor Civil War heroes. It will be built of white enameled terra cotta and embellished with a large medallion portrait of Stephen A. Douglas. Estimated cost, $12,000.

*DREDGING.—Philadelphia, Pa.—Bids were received as follows on Nov. 15 by Major J. C. Sanford, Corps Engrs., U. S. A., for dredging in Delaware River in Sections 4 and 5: P. Sanford Ross, Jersey City, N. J., $409,-864; Morris & Cumings, 17 State St., New York, $481,398; American Dredging Co., Mariner and Merchant Bldg., Philadelphia, $351,232 (recommended for acceptance). Itemized prices are given under Contract Prices.

CLOCK SYSTEM—New York, N. Y.—The following bids were opened Nov. 12, at the Treasury Department, for installing an electric clock system in the New York custom house: The Magnetic Co., New York, $3,-998; the E. Howard Clock Co., New York, $4,990; the Blodgett Clock Co., Boston, Mass., $5,390; the Standard Electric Time Co., Waterbury, Conn., $4,249.74; the Self-Winding Clock Co., Brooklyn, N. Y., $4,150; the American Clock Co., Chicago, Ill., $4,500.

*EMBANKMENT.—Cincinnati, Ohio.—Bids were received as follows by Lieut.-Col. Wm. T. Rossell, Corps Engrs., U. S. A., on Nov. 12 for repairing and protecting Great Miami embankment at Lawrenceburg, Ind.: John W. Scott, Aurora, Ind., and Geo. P. Walker, Cincinnati, $19,172; Thos. J. McKim, Lawrenceburg, $15,478; Albert T. Gridley, Aurora, Ind., and Wm. T. Abraham, Lawrenceburg, $26,266; the L. Eid Concrete Steel Co., Cincinnati, $27,399. Itemized prices are given under Contract Prices.

STEEL FENCE.—Cheyenne, Wyo.—Five bids were received on Nov. 4 by Capt. V. K. Hart, 15th Inf., U. S. A., Cheyenne, for furnishing material and constructing a steel fence for enclosing quartermaster's corrals at Fort D. A. Russell, Wyo., as follows: Lowith Bros. Iron Works Co., Denver, Colo., $2,500; Atkinson Bros., Colorado Springs, Colo., $2,939; The Champion Iron Co., Kenton, Ohio, for material only, f. o. b. cars Kenton, Ohio, $1,600; New Jersey Foundry & Machine Co., New York, for approx. 1,776 lin. ft. fence, at $2.47 per ft., $4,387; R. W. Bradley & Co., Cheyenne (number of feet not stated), at $1.88 per ft.

PIER.—Charleston, S. C.—Bids were received as follows Nov. 16 for the construction of a pile and timber pier at the Navy Yard, Charleston, S. C., by the Chief of the Bureau of Yards and Docks, Navy Dept., Washington, D. C.—(a) pier 650 ft. long; (b) pier 570 ft. long; (c) bidder's alternates: Grant Wilkins, 23½ Whitehall St., Atlanta, Ga., (a) $153,000; (b) $134,000; (c) $123,000; $96,000. Alsop & Peirce, Newport News, Va., (a) $128,000; (b) $108,500; (c) $98,995; $87,358. Simons-Mayrant Co., Charleston, S. C., (a) $139,365; (b) $124,012; (c) deductions ranging from $8,000 to $57,000. Raymond Concrete Pile Co., 140 Cedar St., New York, (c) $139,-875; $120,968. New York Continental-Jewell Filtration Co., 15 Broad St., New York, (a) $139,840; (b) $124,890; (c) $89,885. A. F. Chapman & Co., 20 Breckenridge St., Buffalo, N. Y., (a) $103,400; (b) $93,800; (c) $80,000; $75,000. Bernard Rolf, 39 Cortlandt St., New York, (a) $100,333; (b) $96,333. William L. Miller, 19 Milk St., Boston, Mass., (a) $99,-000; (b) $90,000; (c) $78,430; $79,000. General Contracting & Engineering Co., 15 Whitehall St., New York, (c) $73,630; $64,840. The Foundation Co., 115 Broadway, New York, (a) $126,676; (b) $113,054.

PIER, ETC.—Santa Monica, Cal.—Detail plans and specifications and estimate of cost to conform to such plans and specifications on file in the city engineer's office, are requested by Thos. H. James, City Engr., until Dec. 21, for an improvement which includes the construction of a septic tank, and a pier 1,600 ft. in length from the medium tide line of the Pacific Ocean, extending into the ocean, for the purpose of carrying an outfall pipe from the septic tank. Proposals of plans and specifications in detail and estimates are desired as follows: (1) for a septic tank separately; (2) for a wharf, separately; (3) for the septic tank and wharf combined. All plans and specifications and estimates submitted shall be subject to the approval of two competent civil engineers to be nominated by city council, and whose fees not to exceed $500. The successful competitor must act as consulting engineer in the construction of this work or works in connection with the city engineer. Each competitor must specify what percentage on the total cost of the work covered by the plans and specifications as let to the contractor, he will charge for said plans and specifications and consulting engineering work, not to exceed 5% thereof, and must agree to protect the city against any patents which might be infringed by the structure covered by its plans and specifications. The city engineer will furnish general plan and specifications on application.

ORDNANCE.—Washington, D. C.—Bids were opened Nov. 13 at the office of the Chief of Ordnance, Navy Dept., Washington, for furnishing a large quantity of shell for the Navy Department: Crucible Steel Co. of America, Pittsburg, forged steel armor-piercing shell, 1,500 12-in., $260 each; 300 13-in., $325. E. W. Bliss Co., Brooklyn, N. Y., forged steel target shell, 15,000 3-in., 50-cal., $1.85; 2,000 5-in., 60-lb., $6.95; 2,500 6-in., $9.90; 1,000 7-in., $21.50; 1,000 8-in., $32.50; forged steel common shell, 4,000 5-in., 60-lb., $8.35; 25,000 3-in., 50-cal., $3. United States Rapid Fire Gun & Powder Co., Derby, Conn., 15,000 3-in., 50-cal. target shell, $1.64. Firth-Sterling Steel Co., Giesboro Point, D. C., forged steel armor-piercing target shell, 6-in., $15; 7-in., $22.50; 8-in., $31.75; 12-in., $81.50; 13-in., $101; forged steel armor-piercing projectiles, 8,000 6-in., $27.50; 3,000 7-in., $55; 2,500 8-in., $75; 1,500 12-in., $250. American & British Mfg. Co., Bridgeport, Conn., 2,000 5-in., 60-lb. common shell, $7.98; 50,000 3-in., 50-cal. common shell, $2.14; target shell, 15,000 3-in., 50-cal., $1.615; 1,000 5-in., 50-lb., $5.87; 1,000 5-in., 60-lb., $6.42; 5,000 6-in., $10.72. Midvale Steel Co., Philadelphia, target shell, 1,000 5-in., 60-lb., $9.90; 1,000 5-in., 50-lb., $9.65; 5,000 6-in., $13.25; 1,000 7-in., $23; 2,000 8-in., $32; 1,000 12-in., $87; 3,000 13-in., $103.40; armor-piercing projectiles, 4,000 5-in., 60-lb., $24; 40,000 6-in., $37; 9,000 7-in., $62; 5,000 8-in., $98; 4,500 12-in., $300; 300 13-in., $396. Bethlehem Steel Co., South Bethlehem, Pa., common shell, 50,000 3-in., 50-cal., $2.44; 2,000 5-in., $7.55; target shell, 15,000 3-in., $2.10; 1,000 5-in., 50-lb., $8.20; 1,000 5-in., 60-lb., $8.35; 5,000 6-in., $12.55; 1,000 7-in., $21.50; 2,000 8-in., $32.40; 1,000 12-in., $85.20; 300 13-in., $99.50; armor-piercing projectiles, 4,000 5-in., $20.90; 4,000 6-in., $31.25; 9,000 7-in., $62.50; 5,000 8-in., $94.50; 1,500 12-in., $302; 300 13-in., $394.

U. S. POSSESSIONS AND CUBA.

*LIGHT STATION.—Alaska.—Bids are asked by the Lighthouse Engineer, Portland, Ore., until noon, Jan. 14, for material, erection and construction of Hinchinbrook entrance light station, Alaska.

DREDGING.—Hawaii.—Under date of Nov. 5 we are advised by Capt. C. W. Otwell, Corps Engrs., U. S. A., that the contract for dredging Honolulu Harbor, Hawaii, has been awarded to the HAWAIIAN DREDGING CO., Ltd., of Honolulu, T. H., the price bid being 97 cents per cubic yard—place measurement, including all necessary bulkheading.

*LANTERNS.—Hawaii.—Bids are asked at the office of the light-house engineer, Tompkinsville, N. Y., until 1 p. m., Dec. 16, for furnishing two fourth order lanterns for Honolulu Range Light Stations, Hawaii, in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to the light-house engineer, Tompkinsville, N. Y.

FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ———, ———. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office the matter may wholly escape attention.)

TELEPHONE SWITCH BOARDS.—Australia.—Bids are asked by the Deputy Postmaster-General, Melbourne, until 3 p. m., Dec. 31, for supplying 30 metallic circuit telephone switchboards (100 lines).

AQUEDUCT.—Argentina.—The "Direccion General de Obras de Salubridad" has been authorized to construct an aqueduct over the mouth of the Stubal lake for the passage of the drinking water pipe from Colastine to Santa Fe. The amount authorized to be expended by Government is $110,912 (about $47,000 U. S.).

RAILWAY.—Italy.—The construction of the S. Quirico-Nostra Signora della Guardia electric railway, which has been suspended since 1900, is shortly to be resumed and completed. The line was conceded in 1897 to the "Societa Anonima Co-operativa per la Costruzione ed Esercizio della Ferrovia al Santuario di Nostra Signora della Guardia."

AQUEDUCT.—Italy.—Bids are asked for the construction of an aqueduct for Montaione, Gambassi, Castelfalfi, and San Vivaldo, in the commune of Montaione, at the estimated cost of 143,930 lire (about $2,800). A deposit of 7,500 lire (about $1,500) is required to qualify any bid. Bids must be sent in on stamped paper of the value of 1 lire, not later than Nov. 24, to the Commune di Montaione, Provincia di Firenze.

RAILWAY.—Belgium.—Bids are asked until Nov. 26 by the Société Nationale des Chemins de fer vicinaux, for the construction of the section between Genck and Bilsen on the railway from Genck to Liége, with a branch from Houtain-Saint Siméon to Liége. The estimated cost is 191,143 francs (about $38,200). A deposit of 19,000 francs (about $3,800) is required to qualify any bid. Bids will be received at the offices of the Société, Rue de la Science, 14 Brussels.

BRIDGE.—Egypt.—Bids are asked until noon, Dec. 16, by the Administration of the Egyptian State Railways for the construction of a double-track bridge at Kocheicha, in accordance with the specification and plans that may be obtained at the office of their Inspecting Engineer in London, Lieut.-Col. J. H. Western, R. E., C. M. G., Queen Anne's Chambers, Broadway, Westminster, S. W., on payment of $5. Intending bidders must lodge in the Central Treasury of the Administration at Cairo a provisional deposit of $1,500.

RAILROAD SPIKES.—Norway.—Bids are asked until 3 p. m., Nov. 22, for the supply of 864,700 "dogs" (spikes). Bids marked "Anbud paa Dogs" are to be delivered at "Styrelsens for Statsbanerne Expeditionskontor," Christiania. (Apart from the usual Customs duties, a preference of from 10 to 15 per cent. is given to Norwegian manufacturers. In all cases of Norwegian Government contracts it is obligatory that a resident agent should act for tenderers not residing in Norway, and be responsible to the Government, but it is not necessary for the agent to be a Norwegian firm.)

DAM—Turkey.—Bids are asked until Dec. 10 by the Ministry of Commerce and Public Works, Constantinople, for construction of a dam with sluices on the Hindie Canal in the Vilayet of Bagdad, subject to the following conditions: The dam is to be constructed with 23 compartments, 9.80 meters wide, these compartments to be made of "ciment arme," and between each there is to be a buttress to support a working bridge of 3 meters. The dam is to have a bridge 40 meters in length and 8 meters in width. Guarantee in cash of 10,000 lires is necessary.

BRIDGE.—RAILWAY. — Switzerland.—The Federal Council has voted to the Canton of Ticino a subvention of 40 per cent of the expenses of the construction of a bridge 75.56 meters long and 3.20 meters broad, over the River Ticino, near Quartino, for agricultural purposes.

The Federal Council has also approved the expenditure of (1) 15,000 francs for the construction of a new tramway line from the St. Gothard station at Lugano, to the discharging wharf of the lake steamboats, (2) 946,668 francs for a narrow-gage electric railway on the road from Lugano to Tesserete.

ELECTRIC RAILWAYS.—Argentina.—Bids are asked until May 1, 1908, by the Municipal Intendente, Buenos Ayres, for the construction in the city of Buenos Ayres of two of the principal lines constituting the proposed system of Metropolitan Subway Electric railways. It also requests bids for the purpose of lease of the exploitation of the lines as soon as the construction work is completed. Bases for the bids and some of the plans containing data regarding the proposed railways, it is explained, may be seen by interested parties at the Argentine legation and the consulate. They are in Spanish, which is the official text, and French and English translations.

BANK NOTE PAPER.—Argentina.—American manufacturers are asked to bid for supplying blank paper for use in the printing of bank notes of the republic. The specifications state that the minimum quantity to be supplied will be for 48,500,000 notes in denominations ranging from $1 to $1,000 each, and the size of the paper wanted is given in millimeters. The factory that receives the contract is to bind itself to supply such quantities of paper as may be wanted during a period of five years. The paper is to weigh 80 grains per sq. meter, but some allowance will be made for well made paper. It must come up to a specified toughness so as not to tear easily, and must wear well, is to have proper water marks placed in the fiber during manufacture and is also to be colored in pulp and not after its manufacture, and the colors must be fast and uniform, and must stand a 48-hour exposure to the sun without change. The bids will be received by Jose M. Rubio, Secy. of the Conversion Fund, Buenos Ayres, until Dec. 1.

TELEGRAPH LINES.—Paraguay.—Authority has been granted for laying the following telegraph lines: Double wire from Concepcion to Bella Vista, via Ricon, Loreto, Icuapora, Paso Barreto, Mancuello Otano, San Rafael, La Muerte, and San Lorenzo. Single wire from S. Jose to Ihu, via Ajos, Neuva Australia, 25 de Noviembre, Carayzao, and San Joaquin. Single wire from Santiazo to Ayolas, with a station at San Joseni. Single wire from San Lorenzo to Pedro Juan Caballero, via Esperanza and Estrella. Single wire from Icua-pora to Horqueta. Single wire from Itacurubi de la Cordillera to Valenzuela. Single wire from Villa de San Pedro to Antequera. Single wire from Villa de San Pedro to Lima. Single wire from Caazapa to San Juan Nepomuceno. Single wire from Yuty to Bobi, via San Pedro del Parana. Single wire from Villa del Rosario to Igatimi, via Trinacria, Itacurubi del Rosario, San Estanislao, and Curuguaty. Double wire from Humaita to Ayolas, via Pedro Gonzalez, Desmochado, Laureles, and Yabebyry. Single wire from the Capital along the Central Railway.

CONTRACT PRICES.

(denotes that this work is advertised in Engineering News.)*

*EMBANKMENT.—Cincinnati, Ohio.—Bids were received as follows by Lieut.-Col. Wm. T. Rossell, Corps Engrs., U. S. A., on Nov. 12, for repairing and protecting Great Miami embankment at Lawrenceburg, Ind.: (a) 13,-400 cu. yds. earth fill; (b) 19,000 sq. yds. concrete: John W. Scott, Aurora, Ind., and George P. Walker, Cincinnati, (a) 58 cts.; (b) 60 cts. Thos. J. McKim, Lawrenceburg, (a) 35.75 cts.; (b) 56.25 cts.; Albert T. Gridley, Aurora, Ind., and Wm. J. Abraham, Lawrenceburg, (a) 84 cts.; (b) 79 cts. and the L. Eid Concrete Steel Co., Cincinnati, (a) 48½ cts.; (b) $1.10. For totals see under Miscellaneous Contracts.

*DREDGING.—Philadelphia, Pa.—Bids were received on Nov. 15 by Major J. C. Sanford, Corps Engrs., U. S. A., for dredging in Delaware River in Sections 4 and 5. Detailed bids were as follows—(A) 694,400 cu. yds. material excavated (Section 4), removed and deposited, per cu. yd; (B) 716,800 cu. yds. material (Sub-Section 5A); (C) 716,800 cu. yds. material (Sub-Section 5B): P. Sanford Ross, Inc., Jersey City, N. J., (A) 18¼ cts.; (B) 19¼ cts.; (C) 20¼ cts.; Morris & Cummings, 17 State St., New York, (A) 20½ cts., (B) 21 9/10 cts., (C) 26 cts.; American Dredging Co., Mariner and Merchant Bldg., Philadelphia, (A) 16 cts., (B) 16 cts., (C) 17½ cts. The bids of the last named firm have been recommended for acceptance.

INDUSTRIAL NOTES.

THE RECEIVERS OF MILLIKEN BROS., New York City, report increasing business since Nov. 1, orders having been booked for about 9,000 tons in various parts of the country.

A BLUE PRINT in a single continuous sheet, 54 ins. wide and 120 ft. long, was recently made at Washington, D. C., on a blue print machine made by the Revolute Machine Co. of New York City. The machine was described in Engineering News of Nov. 15, 1906.

THE EXPANDED METAL & CORRUGATED BAR CO., of St. Louis, Mo., is furnishing the reinforcement required for the construction of three circular reservoirs, 100

meters in diameter, for the Potable Water Commission of City of Mexico. An order for 2,000 tons of corrugated bars had been placed with the above company.

THE CHICAGO BUILDERS' SPECIALTIES CO. (18 Chamber of Commerce Building, Chicago) announces that Mr. W. J. Roseberry, Jr. (formerly of the Chicago Concrete Machinery Co.), has been appointed Manager of its Machinery Department. The company has also made arrangements with the Koehring Machine Co., of Milwaukee, Wis., to handle the entire output of the Koehring concrete mixing machine in the United States.

THE CONTRACT for the three large skylights for the new National Museum at Washington, D. C., has been awarded to Arthur E. Rendle, of New York, Chicago and Montreal, to be glazed on patent Paradigm skylight system. Eleven firms bid on this work. The glass roof and skylights on the new union depot buildings, Washington, D. C., were also glazed by A. E. Rendle on the patent Paradigm skylight system; about 80,000 sq. ft.

THE FIRST STOCKHOLDERS' MEETING of the Cement Exposition Co., organized to promote the use of cement and introduce it, through the cement show to be held at the Coliseum, Chicago, December 16 to 21, was held recently in Chicago. Ninety-five per cent. of the stock was represented and the following officers and directors were elected: E. M. Hagar, Pres. Universal Portland Cement Co., Chicago, President. N. D. Fraser, Vice-Pres. & Gen. Mgr. Chicago Portland Cement Co., Vice-President. C. H. Wood, of the Wolverine Portland Cement Co., Coldwater, Mich., Secretary and Treasurer. Directors: Wm. Dickinson, Secy. Marquette Cement Mfg. Co., La Salle, Ill.; A. St. J. Newberry, Pres. Sandusky Portland Cement Co., Sandusky, O.; E. W. Shirk, Pres. United States Cement Co., Bedford, Ind.; D. McCool, Pres. & Treas. Newaygo Portland Cement Co., Newaygo, Mich.; J. U. C. McDaniel, Sales Mgr. Chicago Portland Cement Co., Chicago, Ill.; B. F. Affleck, Gen. Sales Agt. Universal Portland Cement Co., Chicago, Ill. The report of the executive committee, who have had charge of the preliminaries, shows excellent progress. Cement will be exhibited in all its forms from the raw material to the manufactured job, as well as the machinery and equipment for constructing same.

AS AN INDICATION of the rapid development in the manufacture of gas engines and the importance of the field occupied by this type of prime mover, it is of interest to note that another manufacturer of large Corliss steam engines has actively taken up the manufacture of gas engines, and is bidding for engines in medium and large sizes. The Wisconsin Engine Company, with works at Corliss, Wis., which has built some very large and successful Corliss steam engines, reports that it is building gas engines for all services in sizes from 400 B. HP. to 5,000 B. HP. The engines utilize natural gas, producer gas, coke-oven gas or blast-furnace gas in the Otto cycle (4-cycle), and are of the horizontal tandem and twin-tandem double-acting type. This company controls the Sargent patents on internal combustion engines and has employed Charles E. Sargent as the engineer of its gas engine department. Mr. Sargent has a wide reputation as an engineer, and in 1898 designed the first horizontal tandem double-acting gas engine, which was a wide departure from the accepted practice of those days, when the most prominent manufacturers of gas engines declared such a type was impracticable, and doomed to failure. However, the largest and most successful gas engines are of the horizontal twin-tandem double-acting 4-cycle type, and with one exception this is the only type in which large units are being built in this country to-day. The gas engines built by the Wisconsin Engine Co. bear some of the distinctive features of their big Corliss engines, and utilize in design most of the Sargent patents. The design is remarkably simple and embodies features which are of considerable interest to the engineer and power user, e. g., there is but one poppet valve for each explosion chamber, and as this is located on the bottom of the cylinder the cumbersome and unsightly air and gas pipes, as well as the stairs, galleries, and railings found on most horizontal tandem engines, are entirely eliminated; provision is made for preventing the dangerous pressures caused by possible pre-ignitions; and the engines are started automatically. Tests of small Sargent engines show a heat consumption of less than 9,000 British thermal units per brake-horse-power-hour. This company has recently shipped some large steam engines to such concerns as the Illinois Steel Co., Jones & Laughlin Steel Co., Packard Motor Car Co., American Sheet & Tin Plate Co., Amoskeag Mfg. Co., New Hampshire Spinning Mills, National Tube Co., City of Milwaukee, Carnegie Steel Co., American Woolen Co., United States Envelope Co., and the Carnegie Natural Gas Co., and has built up a reputation for shipping "on time."

EXHIBITORS at the Roadmasters Convention

The following were the exhibitors at the annual convention of the Roadmasters and Maintenance of Way Association, held at Chicago, Nov. 12 to 14:

ADAMS & WESTLAKE CO., Chicago.—Switch and signal lamps.

AMERICAN FLANGE FROG & IMPROVEMENT CO., St. Louis, Mo.—The Graham frog, without guard rail.

AMERICAN HOIST & DERRICK CO., St. Paul, Minn.—Ditching machine.

AMERICAN RAIL JOINT CO., Buffalo, N. Y.

AMERICAN RAILWAY DEVICE CO., Chicago.—Switchboards and switch rails.

AMERICAN STEEL & WIRE CO., Chicago.—Woven wire fencing.

AMERICAN TRACK BARROW CO., Lowell, Mass.—Track wheelbarrows.

AMERICAN VALVE & METER CO., Cincinnati, O.—Switchstands.

ATLAS RAILWAY SUPPLY CO., Chicago.—Rail joints, braces and switchstands.

LOUIS BLESSING, Jackson, Mich.—Concrete ties.

BORDER BOLT & NUT LOCK CO., Richmond, Ind.

BUDA FOUNDRY & MFG. CO., Harvey, Ill.—Track tools and supplies.

CLEVELAND FROG & CROSSING CO., Cleveland, O.

COMMONWEALTH STEEL CO., St. Louis, Mo.—Weed burning machine.

COOK STANDARD TOOL CO., Kalamazoo, Mich.—Cattleguards and track tools.

COULTER & PAYTON, Longmont, Colo.—Track wrench with chain drive.

DILWORTH, PORTER & CO., Pittsburg, Pa.—Spikes and tie-plates.

EYELESS TOOL CO., Newark, N. J.—Track tools.

FAIRBANKS, MORSE & CO., Chicago.—Track tools and motor car.

GIBRALTAR MFG. CO., Chicago.—Bumping post.

WM. GOLDIE, JR., & CO., West Bay City, Mich.—Tie plugs.

GRIP NUT CO., Chicago.

HART STEEL CO., Elyria, Ohio.—Spikes and tie-plates.

HAYES TRACK APPLIANCE CO., Geneva, N. Y.—Derails.

HUSSEY-BINNS CO., Pittsburg, Pa.—Spades and shovels.

KALAMAZOO RAILWAY SUPPLY CO., Kalamazoo, Mich.—Track tools and section cars.

NATIONAL LOCK WASHER CO., Newark, N. J.

PENNSYLVANIA STEEL CO., Steelton, Pa.—Frog with manganese steel facing.

QUINCY-MANCHESTER-SARGENT CO., Chicago.—Rail joints and tie-tongs.

RAIL JOINT CO., New York, N. Y.

RAILROAD SUPPLY CO., Chicago.—Tie-plates and derails.

RAILWAY SPECIALTY & SUPPLY CO., Chicago.—Lock nuts, rail braces and anchors.

RAMAPO IRON WORKS, Hillburn, N. Y.—Frogs and switches.

M. M. RILEY, Ironwood, Mich.—Steel tie.

JOHN M. SCOTT & SON, Racine, Wis.—Bumping posts and nut-locks.

SELLERS MFG. CO., Chicago.—Rail joints and tie-plates.

STOVER MOTOR CAR CO., Freeport, Ill.—Motor inspection car.

W. R. THOMAS, Watertown, Wis.—Boltless rail joint.

U. S. WIND ENGINE & PUMP CO., Batavia, Ill.—Water tanks and fittings, and switchstands.

UNIVERSAL PORTLAND CEMENT CO., Chicago.

WORTH WIRE WORKS, Kokomo, Ind.—Stays for wire fencing.

CIVIL SERVICE EXAMINATIONS.

TRAFFIC INSPECTOR.—Albany, N. Y.—The State Civil Service Commission will hold examinations Dec. 14 for the position of traffic inspector, at a salary of $1,800 a year. The last day for filing applications is Dec. 7. Frank S. Fowler, Albany, is Ch. Examiner.

ENGINEER DRAFTSMAN.—Washington, D. C.—An examination is announced by the U. S. Civil Service Commission on Dec. 11-12 to secure eligibles from which to make certification to fill a vacancy in the position of engineer draftsman (structural), at from $1,600 to $1,800 a year, Office of the Supervising Architect, Treasury Dept., and vacancies requiring similar qualifications, as they may occur in any branch of the service. Age limit, 20 years. Application form 1312.

LABORATORY ASSISTANT IN WOOD CHEMISTRY (Male).—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Dec. 18 to secure eligibles from which to make certification to fill a vacancy in the position of laboratory assistant in wood chemistry (male), at $720 a year, in the Forest Service, Department of Agriculture, and vacancies requiring similar qualifications as they may occur in that service. Age limit, 18 years. Application form 1312.

ASSISTANT STEAM ENGINEER.—Albany, N. Y.—The following persons passed the examination held on Oct. 12 for the position of assistant steam engineer in the Onondaga County service. The salary of the position is $50-$75 a month:

Charles L. Cross, 108 Center St., Solvay, N. Y. 91.14
Arthur W. Westcott, 123 Wellington Place, Syracuse, N. Y. 85.00
Benjamin Ruston, 210 Westcott St., Syracuse, N. Y. 84.25
William C. Manning, 616 East Willow St., Syracuse, N. Y. 82.91
Lou C. Chapman, Jamesville, N. Y. 82.65

MECHANICAL DRAFTSMAN.—Panama.—The U. S. Civil Service Commission announces an examination on Dec. 11-12, to secure eligibles from which to make certification to fill vacancies in the position of mechanical draftsman under the Isthmian Canal Commission on the Isthmus of Panama, as they may occur, at a salary of $125 a month. Occasional appointments of persons with special qualifications are made at $150 and $175 a month. It is probable that about 15 appointments will be made, this estimate being based upon the number of appointments made during the past year. Age limit, 18 to 40 years. Application form 1312.

ASSISTANT SUPERINTENDENT OF CONSTRUCTION.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Dec. 11, to secure eligibles from which to make certification to fill a vacancy in the position of assistant superintendent of construction, at $1,200 a year, at Cheyenne, Wyo.; a vacancy in the position of assistant superintendent of construction and inspector, $900 a year, Fort Sam Houston, Tex., both in the Quartermaster's Department at Large, and vacancies requiring similar qualifications as they may occur in any branch of the service. Age limit, 20 years. Application form 1312.

ARCHITECTURAL DRAFTSMEN. — Albany, N. Y.—The following persons passed the examination held on Sept. 28 by the State Civil Service Commission for the position of architectural draftsman, which pays a salary of from $15 to $25 a week:

W. Lloyd Rounds, 1380 Broadway, Rensselaer, N. Y. 79.50
Abraham B. Greenberg, 5 East 115th St., New York 79.00
Lew Koen, 401 Snediker Ave., Brooklyn, N. Y. 77.20
Arthur Weindorf, 105 East Ave., Long Island City, N. Y. 75.50
William M. Halley, 1014 East 175th St., New York 75.00

TOPOGRAPHICAL DRAFTSMAN. — Panama.—An examination is announced by the U. S. Civil Service Commission on Dec. 11-12 to secure eligibles from which to make certification to fill vacancies as they may occur in the position of topographic draftsman, Department of Construction and Engineering, on the Isthmus of Panama. The usual entrance salary is $125 a month. Occasional appointments of persons with special qualifications are made at $150 and $175 a month. It is probable that about ten appointments will be made, this estimate being based upon the number of appointments made during the past year. Age limit, 20 to 45 years. Application form 1312.

DEPUTY SHIPPING COMMISSIONER.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on Dec. 12, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of deputy shipping commissioner, at salaries ranging from $800 per annum upward, in the Bureau of Navigation, Department of Commerce and Labor. Appointments are usually made at $900 a year. Persons who pass the examination and who are legal residents of states east of the Mississippi River will be eligible for appointment to positions in that district, and persons who are legal residents of states west of the Mississippi River will be eligible for positions west of that boundary. Age limit, 20 years. Application forms 1312 and 1141.

SANITARY INSPECTOR.—Albany, N. Y.—The following persons passed the examinations held on Oct. 12 by the State Civil Service Commission for the position of sanitary inspector in the state service. The salary of the position is $3 to $5 a day:

David T. Marshall, Hollis, Long Island, N. Y. 86.64
William H. Young, Van Hornersville, N. Y. 86.57
Jacques Birkhaim, 1174 Cascadilla Place, Ithaca, N. Y. 81.66
Nathan Schwartz, 705 East Ninth St., New York 78.94
Hyman Lischner, 311 East Tenth St., New York 78.39
Alfred Regan, 131 Jefferson St., Buffalo, N. Y. 77.77
Timothy F. Donovan, 74 Prospect Ave., Buffalo, N. Y. 76.86

SHIPPING COMMISSIONER.— Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on Dec. 11, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of shipping commissioner, in the Bureau of Navigation, Department of Commerce and Labor. Shipping commissioners are paid on the basis of the number of seamen shipped and discharged, the actual compensation being from $1,000 upward, according to the port at which service is performed. Persons who pass the examination and who are legal residents of states east of the Mississippi River will be eligible for appointment to positions in that district, and persons who are legal residents of states west of the Mississippi River will be eligible for positions west of that boundary. Age limit, 25 years. Application forms 1312 and 1141.

HIGHWAY INSPECTOR.—Albany, N. Y.—Sixty persons passed the examination held Oct. 12 by the State Civil Service Commission for the position of highway inspector, at $3.50 to $4 a day. The first ten on the list are as follows:

Albert H. Hallenbeck, 114 Wood Ave., Syracuse, N. Y. 92.91
George F. Polnan, 4 Upton Park, Rochester, N. Y. 91.60
Joseph E. Myers, 81 Lancaster St., Albany, N. Y. 89.91
Wendell P. Murray, 137 South Main St., Gloversville, N. Y. 89.88
Hugh Henderson, 246 Elm St., Albany, N. Y. 88.10
Hubert E. Reeves, 63 Elm St., Glens Falls, N. Y. 88.04
Henry C. Littl , 327 West Embargo St., Rome, N. Y. 87.75
William G. Merritt, Kingston, N. Y. ..87.50
Edward M. Polnan, 1 Rockingham St., Rochester, N. Y. 87.34
Homer C. Greene, 1229 Main St., Peekskill, N. Y. 87.07

LEVELERS.—Albany, N. Y.—Fourteen persons were successful at the examination held on Oct. 12 by the State Civil Service Commission for the position of leveler in the state service, at a salary of $4.50 to $5 a day. The first ten on the list are:

Clarke D. Murray, 220 East State St., Ithaca, N. Y. 84.32
Hubert T. Arnold, 304 Division St., Amsterdam, N. Y. 84.09
Earle B. Fox, 520 Second Ave., Troy, N. Y. 84.07
William J. P. Thompson, 544 West 113th St., New York 83.75
Michael J. Bartley, 144 Ninth St., Troy, N. Y. 81.21
Royal G. Finch, East Main St., Norwich, N. Y. 80.32
Arthur C. Clark, Barge Canal Office, Fulton, N. Y. 78.79
Harry W. Hale, 74 South Broad St., Norwich, N. Y. 78.50
Vann E. Phillips, 258 Midland Ave., Syracuse, N. Y. 77.96
Harry R. Wickham, 1 Delaware Terrace, Albany, N. Y. 77.54

DEPUTY FACTORY INSPECTOR.—Albany, N. Y.—Twenty-eight persons passed the examination held on Aug. 24 by the State Civil Service Commission for the position of deputy factory inspector in the state service. The salary of the position is $1,000 a year. The first ten on the list are:

Howard A. Butler, 351 West 114th St., New York 91.45
Nathan Schwartz, 705 East Ninth St., New York 87.90
George C. Daniels, 110 Lark St., Albany, N. Y. 86.76
George M. White, 220 Fourth Ave., New York 83.80
Edward Quigley, 408 West Clinton Ave., Johnstown, N. Y. 82.25
Jessie M. Bolin, 1984 Daly Ave., New York 82.60
Jesse P. Harsha, 4 School St., Glens Falls, N. Y. 81.45
Frank L. Fisher, 311 Church St., Herkimer, N. Y. 81.45
George B. Runyan, 50½ Nelson St., Auburn, N. Y. 80.20
Henry P. Brown, 804 East Genesee St., Syracuse, N. Y. 79.60

READERS' WANTS

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

Also ask for our BUYERS' GUIDE

GAS PRODUCER PLANTS.—Houston, Tex.—The Weber-Duller Construction Co., Houston, Tex., write us that information is desired concerning gas producers from manufacturers.

STUMP PULLING MACHINERY.—Gordon, Ala.—We are in receipt of a communication from R. L. Beasley, Gordon, Ala., stating that he is in the market for equipment for a steam stump pulling business.

CONTRACTOR'S EQUIPMENT. — Boston, Mass.—We are in receipt of advice from J. W. Falconer, P. O. Box 3612, Boston, Mass., stating that he is desirous of obtaining catalogs of the following: Concrete mixers, elevators for construction work, carts and contractor's machinery.

TRADE PUBLICATIONS.

DUMP WAGON.—Austin Manufacturing Co., Chicago. 10 × 6¾ ins.; pp. 20; illustrated.

The pamphlet gives illustrated lists of the various kinds of "Pioneer Dump Wagons."

HOSE CLAMP.—Geo. W. Payne, 330 W. 60th Place, Chicago. Paper; circular; 3½ × 5½ ins.; illustrated.

This tool is for clamping hose by means of a piece of wire; it is intended for use in power plants, etc.

DREDGING.—North American Dredging Co., San Francisco, Cal. 7 × 5 ins.; pp. 31; illustrated.

This company is prepared to make harbor improvements in any part of the world. The catalog gives many views of their equipment in operation.

TEREDO-PROOF PAINT.—The Teredo-Proof Paint Co., Whitehall Bldg., N. Y. 5¾ × 9 ins.; pp. 16; illustrated.

The paint described in this catalog is claimed to supply an efficient protection against decay from atmospheric changes and destruction by boring insects such as the teredo, limnoria and white ant.

ENGINEERING INSTRUMENTS.—A. Lietz Co., San Francisco, Cal. 6 × 9 ins.; pp. 128; illustrated.

This "Publication C" is a catalog of engineers', architects' and draftsmen's office supplies. It should be valuable to engineers on the Pacific Coast.

STRUCTURAL SHAPES.—Bethlehem Steel Co., South Bethlehem, Pa. 4 × 6½ ins.; pp. 40; illustrated.

This gives the usual tabular classifications of special structural shapes now being rolled by the Bethlehem Steel Co. They comprise special girder-beams, running as high as 30-in. 200 lbs., special I-beams, up to 30-in. 120 lbs., and rolled H-columns.

DRILLING MACHINERY.—The Cyclone Drill Co., Orville, Ohio; 6 × 9 ins.; pp. 96; illustrated.

This company is in the business of making all kinds of prospecting machinery for coal, water, oil, gas, mineral and placer mining. This catalog lists thin cable, hollow rod, core and rotary drills, contractor's drills for blast holes, blast hole loaders, engines, boilers and finishing tools.

SLAG AND ITS USES.—Emanuel & Co., Catasauqua, Pa. 8 × 5 ins.; pp. 46; illustrated.

Under the above title this firm presents the arguments in favor of the use of blast-furnace slag in concrete, citing instances of its use and experiments showing its value. They have a crusher in operation upon one of the largest slag piles in western Pennsylvania and are prepared to supply the material in condition fit for use in concrete.

LOCK NUTS.—The Railway Specialty & Supply Co., Chicago. Paper; 6 × 9 ins.; pp. 4; illustrated.

The Smith nut is formed of a steel spiral, tapped in the usual way; when screwed up tight the slight opening of the coils is closed, so that the coils of the nut exert the same pressure as a spring nut-lock.

CONCRETE FORMS.—Thomas C. Farrell, Washington, N. J. 5 × 8 ins.; pp. 40; illustrated.

This catalog contains an extended description of molds for use as concrete forms, the principal detail of which consists of a patented metal clip that acts both to hold each board to the one above and to connect the two sides of the form. The device should prove useful in thin wall work.

REINFORCED CONCRETE.—The American Rolling Mill Co., Middletown, Ohio. 9½ × 7¼ ins.; pp. 39; illustrated.

The "Truss Method of Reinforcement" which is the title of this pamphlet consists in the use of an interlocked metal lath which is inserted in walls and partitions of concrete. It is not used for beam reinforcement. The catalog gives many illustrated descriptions of its use.

RAILS AND TRACK WORK.—American Bureau of Inspection and Tests, Mondanock Block, Chicago. Paper; 3½ × 6¼ ins.; pp. 12; illustrated.

This little pamphlet contains the "Manufacturers" specifications for rails and splice bars, and general information as to the inspection of rails, bridge and structural steel, and railway equipment. Tables are given for quantities of track material, and tables and diagrams for plotting curves and switch work.

CAST-IRON CULVERT PIPE.—National Cast-Iron Drain Pipe Co., 220 Broadway, New York. 3-page folder, 3¼ × 5¾ ins.; illustrated.

A few words are here said regarding the advantages of 3-ft. lengths of cast-iron culvert pipe, both as compared with cast-iron pipe in 12-ft. lengths and as compared with earthenware, wood, steel or concrete. Large sizes of the 3-ft. cast-iron pipe, it is stated, can be handled without a derrick.

GASOLINE LIGHTS.—The Bolté & Weyer Co., 223 Michigan St., Chicago. Paper; 3¼ × 6¼ ins.; pp. 12; illustrated.

These lights are for railway construction and wrecking work, contract work, etc. The gasoline is forced by air pressure to burners fitted with mantles, and in one system a small flexible pipe or hollow wire extends from the gasoline tank to a number of lamps. There is a list of railways, contractors and others who have used this system.

RAILWAY MOTOR CARS.—Union Pacific Ry., Passenger Department, Omaha, Neb. Paper; 8½ × 6¼ ins.; pp. 28; illustrated.

This pamphlet describes the gasoline motor cars developed by Mr. W. R. McKeen, Superintendent of Motive Power, and built at the company's shops. It is stated that nine of these are in service and 22 under construction. The general features of the cars and their machinery equipment are given, together with particulars of trial runs. The illustrations include a general plan and interior and exterior views of the different cars.

STEAM TURBINES.—The General Electric Co., Schenectady, N. Y. Bulletin 4531. Paper; 8 × 10½ ins.; pp. 30; illustrated.

This pamphlet is prepared in very attractive style and contains considerable information on superheat, vacuum, economy, etc., in respect to the Curtis turbine as well as the expected details of construction and operation. Some details of tests are given of 1,000, 2,250, 5,000, and 9,000-KW. units. Among the most interesting of the illustrations are those of the interior of the Fish St. Station, Chicago, of a cross section view of a 9,000-KW. machine, methods of manufacture, etc., etc.

WOOD BLOCK PAVEMENT.—The Barber Asphalt Paving Co., Land Title Building, Philadelphia, Pa. Paper; 6 × 9 ins.; pp. 19; illustrated.

Arguments against wood block pavement are here presented in well written form, under the heading and sub-headings, "Creosoted Wood Blocks: An Inquiry into Their Merits. A Form of Pavement both Expensive and Experimental." The company states that the pamphlet has been prepared at its request by experts whose field of observation and experience, both in construction and maintenance of street pavements and in the preservation of timber by the various creosoting processes, has enabled them to conduct the research in an intelligent and impartial manner.

AIR-BRAKE EMERGENCY VALVE AND PNEUMATIC GOVERNOR.—The Allis-Chalmers Co., Milwaukee. Bulletins Nos. 1514 and 1515; paper; 8 × 10½ ins.; pp. 8 each; illustrated.

The type "OB" pneumatic governor is for automatically controlling the air compressor, maintaining the pressure at any value required. Results of service tests, and diagrams of construction, make the bulletin very clear.

The type "J" emergency valve for straight air-brake equipments is the subject of this bulletin. The principal advantage of the straight air-brake system is in its simplicity and the fact that the brakes may be applied and released gradually. Formerly it possessed the defect that it did not set automatically in the event of breaking in two of a train; moreover, with the ordinary straight system only the motorman can control the brakes, while with the automatic system the brakes may be applied from any point in the train in emergencies. This valve was designed to meet these deficiencies in the straight air-brake system. Diagrams in this bulletin illustrate clearly the operation and construction of the valve.

"CONCENTRATING AND BRIQUETTING OF IRON ORES."—The American Gröndal Kjellin Co., 45 Wall St., New York City. Bulletin No. 1; paper; 7½ × 10 ins.; pp. 13; illustrated.

To quote the opening words of this bulletin: "It is a well-known fact that immense deposits of iron ore are found in many places all over the world, the quality of which is unsuitable for economic blast-furnace practice and the production of good quality pig iron. . . Mr. Gustaf Gröndal's efforts in this direction, extending over a number of years, have been most successful, the appliances and machinery invented by him for crushing, concentrating and briquetting low-grade and impure iron ores being now so perfected as to produce the desired results at a minimum of cost. By these methods . . . a great number of hitherto practically valueless iron ores can now be turned to excellent account by reason of the richness and purity of the briquettes and the low cost of production."

These quoted words give very well an idea of the scope of the process. The bulletin describes it in detail, and the fact that the process has been applied with success in Sweden—a country noted for its iron—bespeaks it as worthy of the attention of American engineers.

ELECTRIC MOTORS AND GENERATORS. Crocker-Wheeler Co., Bulletins 82-90. Paper; 7½ × 10 ins; pp. 84 (to 191); illustrated.

Bulletin 82 describes the general design of mechanical and electrical features of direct-current railway power generators. A table of general dimensions and weights of these machines from 125 to 1,000 KW. is added and there are numerous illustrations of prominent installations.

Bulletin 83 treats the characteristics and construction of generators for electrolytic refineries. Bulletin 84 is devoted to a consideration of the points about this concerns gas engine driven alternating current generators, which have made their operation notably successful. In Bulletin 85 is described a motor for driving rolling mills and similar machinery. The shocks, jars and heavy sudden overloads cannot be sustained by ordinary motors so that special heavy parts are necessary. These are described in this bulletin. In Bulletin 87, the various types of motors adapted to drives for printing machinery are shown in their applications.

Bulletin 88 has seven pages on the merits of the Crocker-Wheeler design of polyphase induction motors and in these pages appear numerous half-tones showing applications of these motors. In Bulletin 89 the Form I. F. direct current motor is described. This type is of a field-weakening motor to give a variable speed drive without the necessity of a multiple-voltage system and operates on a simple two-wire system, with speeds ranging up to 3 to 1.

Bulletin 90 is writen in Spanish and presumably was prepared for circulation in the Latin-American countries. It describes the general line of direct current machinery.

For other Proposal Advertisements see pages 59, 60, 61, 62, 63, 64, 65, 66 of Advertisements and Construction News page 170.

SEWER.

Office of the Commissioners of Sewerage, of Louisville, Ky.

Sealed proposals for the construction of a sewer under the recent $4,000,000 bond issue, known as Section "B" of the Southern Outfall Sewer Contract No. 2 of the Comprehensive System of Sewerage for the City of Louisville, Kentucky, will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, December 17th, 1907.

This work consists mainly of a sewer of the following sizes and lengths:

15 ft. 2 in. by 15 ft. 6 in.;	3,322 ft. long.
14 ft. 5 in. by 15 ft.;	1,820 ft. long.
13 ft. 11 in. by 14 ft. 3 in.;	970 ft. long.

The principal items in the engineer's estimate of the work are approximately as follows:

Excavation 6,143 lin. ft.; depth	ft. to 42 ft.
Concrete	(000) cu. yds.
Reinforcing steel bars	(000) lbs.
Portland cement	(000) bbls.

Plans and specifications may [illegible] at the office of the Commissioners, [illegible] office of this paper, and at the office of Consulting Engineer, Harrison P. Eddy, Metcalf & Eddy, 14 Beacon St., Boston, [illegible].

Sealed bids should be endorsed "Proposals for Section 'B' of the Southern Outfall Sewer" and addressed to the Commissioners of Sewerage, 601, 603 and 605 Equitable Building, Louisville, Ky. Each bid shall be accompanied by a certified check for [illegible] sum of $4,000.00 as a guarantee of good faith.

P. L. ATHERTON, [illegible]

CHAS. P. WEAVER, Secy. and [illegible]
J. B. F. BREED, Chief Engineer.

2t 24-1t

Situations Open

WANTED—Men with some knowledge of calculations, both commercial and scientific, to handle the best selling calculator by the best selling plan in the world. Address BOX 144, Oakland, Cal. 21-1t

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ENGINEERING NEWS PUBLISHING CO.
220 Broadway, New York

MAYOR'S OFFICE
Salem, N. J., Feb. 1st, 1905

GENTLEMEN:—Your card in reference to advertising our City work has been received. In advertising County work I have had excellent results from your journal in the past, and while I know of no work of importance to be let during the present year you may rest assured that I shall use the same medium that has proven satisfactory should any work requiring an advertising medium be ordered. Your journal is a most welcome weekly visitor at my office, and the copy referred to in your card will not be amiss.

Yours respectfully,
JOSIAH MILLER, Mayor.

All the responsible contractors and supply firms in America follow the proposal pages in Engineering News each week so as to bid on the proposed work advertised.

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Machinery, Tools and Supplies

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Readers of ENGINEERING NEWS

Each week a few intending buyers notify us of their immediate wants. These items in most cases appear in our Construction News pages under "Readers' Wants."

Engineering News is the only journal in the world that has such a department conducted for the benefit of both buyers and advertisers. This department alone is worth many times the cost of the subscription to the paper. To advertisers it should be worth many times the cost of advertising on account of the information being sent them in advance of publication.

IF YOU ARE IN THE MARKET FOR SUPPLIES notify us at once, no matter in what part of the world you are located, or of the amount of supplies wanted.

IF YOU ARE IN THE MARKET TO SELL follow closely each week the itemized items under "Readers' Wants."

INFORMATION DEPARTMENT

Engineering News
220 Broadway, New York

NOTICE TO ADVERTISERS

Cuts and copy for changes in classified advertisements should be received twelve days in advance of date of issue ***if proof is desired.***

Changes received ten days in advance can be inserted without proofs being submitted.

ENGINEERING NEWS PUBLISHING CO.